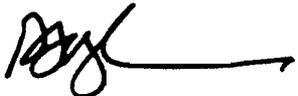




MEMORANDUM

TO: Honorable Chair and Members of the Board of County Commissioners

THROUGH: Robert S. LaSala, County Administrator 

FROM: Peter J. Yauch, P.E., Director of Transportation and Stormwater, DEI 

DIST: Kelli Levy, Section Manager, Watershed Management
Kim Tracy, P.E., Section Manager, Stormwater Management

SUBJECT: Tara Cay Sound
Discussion at February 21, 2012, Board Meeting

DATE: February 14, 2012

At the February 7, 2012, Board of County Commissioners meeting, Commissioner Welch, on behalf of Commissioner Chair Morroni, brought up the request of Dr. Tom Cuba related to the maintenance of facilities at Tara Cay Sound. Kim Tracy, DEI's Section Manager for Stormwater, was present and was able to provide some background on the history of the site. The Board requested additional information and an opportunity to discuss in more detail at the February 21 Board meeting.

There has been a long documented history related to this location. Attached is a sampling correspondence over the past ten years related to the maintenance of the site:

"A" - Memo from Jan Herbst, then Director of Engineering, to Keith Wicks, then Director of Public Works, dated February 22, 2002.

"B" - Letter from Keith Wicks to the presidents of the Tara Cay Sound North and Tara Cay Sound South homeowners associations, dated March 8, 2002.

"C" - Memo from Barbara Sheen Todd, then Chair of the Board, to Keith Wicks, dated April 16, 2002.

"D" - Letter from Pete Yauch, as Director of Public Works and Transportation, to the Vice President of the Tara Cay Sound North homeowners association, dated April 14, 2008.

"E" - Most recent letter from Pete Yauch to Dr. Cuba, dated November 23, 2011.

"F" - Dr. Cuba's e-mail to the Board, dated November 28, 2011.

Also attached as "G" is a copy of the Dedication of the easements, noting that "Tara Cay Homeowner's Association, Inc., joins in this dedication for the purpose of warranting that it will maintain the private rights-of-way, drainage systems, and appurtenances and Tract "A" situated within this plat.

Honorable Chair and Members of the Board of County Commissioners
February 14, 2012
Page 2

The site plan is also attached for your review.

In summary,

1. The acceptance of the drainage that existed prior to development was a requirement for permitting Tara Cay.
2. The developer accepted these terms.
3. The requirements then transferred to the Homeowners Associations.

Staff will be present to discuss these issues with the Board.

"A"

TO: J. Keith Wicks, P.E., Director of Public Works
FROM: Jan R. Herbst, P.E., Director of Engineering
DIST.: John R. Holt, P.E., Surface Water Management
SUBJECT: Tara Cay Sound - "Channel" Sedimentation Issue Report
DATE: February 22, 2002

In response to a complaint from the Tara Cay Homeowner's Association, see July 25, 2001 letter, the following report is provided:

The Tara Cay Homeowner's Association complaint is that the stormwater runoff from the upstream drainage area is transporting sediment which is filling in the "channel", between Tara Cay North and Tara Cay South, to the point of impacting navigation, specifically access to their docks. On September 27, Commissioner Seel and I met with the Tara Cay Homeowner's Association Board to discuss their concerns.

HISTORY: Prior to the development of Tara Cay, the "channel" was an existing drainage ditch. The ditch was within a 100-foot wide drainage easement dedicated to Pinellas County in 1984, and conveyed stormwater runoff from a 429-acre upstream drainage area to its terminus at open water (Intercoastal Waterway). In the early 90's, Tara Cay Sound Development, under a permitted site plan, dredged the ditch for navigational purposes. The private development dredging project enlarged the ditch from approximately 40 feet in width, with a bottom elevation of approximately -1.0 foot, to a width of 200 feet and a bottom elevation of approximately -5.0 feet. The sediment sump currently in place was constructed at the end of the stormwater pipes to provide an area so that debris and siltation would be trapped prior to going into the "channel".

DISCUSSION: Public Works' investigation consisted of research into the history of the "channel" and a survey of the "channel" to compare the present condition to the original permitted design cross-sections for the private development. Soundings were performed to produce the survey and a review of the cross-sections indicates that natural sloughing of the side slopes, not accumulated sediment, is the main cause of the changes to the "channel" cross-section. No seawalls were constructed along the "channel" banks with the original development.

To restore the "channel" to the permitted cross-section would involve the removal of approximately 6000 cubic yards of material, however the banks will continue to slough unless they are stabilized.

The sedimentation of the "channel" is not impacting drainage flow and there are no adverse impacts upstream. The Tara Cay Homeowner's Association should be advised that any work deemed necessary to restore navigational access to the docks is the responsibility of the benefiting property owners.

A chronology of the public contact that has occurred over the last few months is being compiled and will be transmitted within the next week.

"B"



BOARD OF COUNTY COMMISSIONERS
PINELLAS COUNTY, FLORIDA

DEPARTMENT OF PUBLIC WORKS
440 COURT STREET
CLEARWATER, FLORIDA 33756
PHONE (727) 464-3251

COMMISSIONERS:

BARBARA SHEEN TODD - CHAIRMAN
KAREN WILLIAMS SEEL - VICE CHAIRMAN
CALVIN D. HARRIS
SUSAN LATVALA
JOHN MORRONI
ROBERT E. STEWART
KENNETH T. WELCH

March 8, 2002

Judith Albritton, President
Tara Cay Sound South Homeowners' Association
9920 Indian Key Trail
Seminole, FL 33776

Ron Woodall, President
Tara Cay Sound North Homeowners' Association
14694 Seminole Trail
Seminole, FL 33776

RE: Tara Cay Sound drainage

Dear Ms. Albritton and Mr. Woodall:

This letter is being provided as a follow-up to your ongoing concern about navigation and drainage maintenance. Public Works staff has completed their investigation and reports the following:

1. Navigational Issue:

The complaint restated is that the stormwater runoff from the upstream drainage area is transporting sediment which is filling in the 'channel' between Tara Cay North and Tara Cay South, to the point of impacting navigation, specifically access to docks.

Our investigation is complete. Our analysis reveals that the main cause of the changes to the 'channel' cross-section is natural sloughing along the banks of the channel and not sediment from the storm sewer system. The effect of the natural sloughing of the bank does not impact the drainage flow of the channel and no adverse impacts are experienced upstream.

The Tara Cay Homeowners' Associations would be responsible for the work required to restore the navigational access to the docks since the benefit is directly to the adjacent property owners. As a potential solution, the Tara Cay Homeowners' Association may wish to consider modifying the docks themselves to extend further into the waterway.

2. Maintenance Responsibility for Drainage System

Prior to development, an open ditch extended across the property owner's (Mr. Kotchman's) property. At that time, Pinellas County mowed the ditch on a routine cycle. During the development process, the maintenance responsibilities were taken over by the developer and Tara Cay Homeowner's Associations.

We found the following list of documents (with exhibits attached) which verify this maintenance responsibility.

Exhibit One

May 14, 1993 letter from the engineering firm of record stating "The proposed stormwater treatment pond area and the major drainageway - - - The owner, Tara Cay Sound, Inc., will accept all operation and maintenance responsibility for these facilities until conveyance to the homeowner's association." --- "Homeowner or Property Owner Association, which will be the ultimate operational and maintenance authority."

Exhibit Two

Construction plans, sheet #14 of 16 designating area enclosed by new sheet piling as "retention area"

Exhibit Three

Southwest Florida Water Management District Permit page 5 of 6 Operation and Maintenance Entity signed as Tara Cay Sound, Inc., Robert Douglas, President.

Exhibit Four

Statement of Completion, Southwest Florida Water Management District Permit page 2 of 2. Agreement to maintain and operate surface water management system signed by Robert Douglas, Tara Cay Sound South Village Homeowner's Association, Inc.

Exhibit Five

Page 1 of 16 of construction plans Tara Cay statement reads 'PINELLAS COUNTY WILL NOT BE REQUIRED TO PROVIDE ANY DRAINAGE, WATER OR ROADWAY MAINTENANCE BEYOND THE ENTRANCE RIGHT-OF-WAY LINE.'

Page 3 – Letter to Tara Cay Sound HOA
March 8, 2002

Exhibit Six

July 14, 1993 memo from Carol Purchell, Item #16 states "Maintaining stormwater retention areas will be a continuing function of the property owner."

Exhibit Seven

We do not have a complete set of Homeowner's Association documents, but page 9 states "The Association shall maintain ---, stormwater runoff retention areas and outfall control,---."

3. Concerning the Question of Holes Cut in the Weir Structure:

Pinellas County Highway Department did not perform this work. The County Department of Development Review Services believes that the developer did receive authorization for modification to the weir allowing the holes to be cut in the sheet piling to reduce algae blooms and allow saltwater intrusion to reduce hydrilla growth. They believe the work was performed by the developer.

As you can see from the above, we find no County responsibility for a resolution of these private matters. If either of the Homeowners' Associations has information that conflicts or is contrary to the information we have provided, please bring it to my attention and I assure you that it will get prompt and thorough handling.

If you would like to meet to go over the information we have provided, please contact my office at 464-3251.

Sincerely,


J. Keith Wicks, P.E., Director
Department of Public Works

enclosures

cc: The Honorable Chairman and Members of the
Board of County Commissioners
Stephen M. Spratt, County Administrator

"C"

Post-It® Fax Note 7671		Date	4/24/02	# of pages	1
To	Charles Wolynberg		From	Comms. Morrone	
Co./Dept.			Co.	Bsdm	
Phone #	593-2911		Phone #	464-3568	
Fax #	593-5520		Fax #	464-3022	

4/18/02
 Called & Hm
 m AM for Mr. Wolynberg
 to call us back with
 up date - J

MEMORANDUM

TO: Keith Wicks, Director, Public Works

FROM: Barbara Sheen Todd, Chairman

DATE: April 16, 2002

SUBJECT: Tara Cay Sound drainage



Keith,

I received and reviewed your comprehensive response to the Tara Cay Sound South and North Homeowners' Association in Seminole. I appreciate your thorough response and would like to discuss it with you. Specifically:

1. Have you received any further inquiries from the Homeowners' Association?
2. What about the possibility of the county assisting in following ways with the financial participation of the homeowners:
 - A. "clearing out" sedimentation, and
 - B. providing "stabilization" of banks as a possible alternative.

Clearly, your documentation indicates that the legal responsibility has been assumed by the homeowners group or developer. My thought is that we would assist, if requested, and through an assessment type program.

Your thoughts?

c: ✓ John Morrone
 Karen Williams Seel
 S. Spratt.



**BOARD OF COUNTY
COMMISSIONERS**

Robert B. Stewart - Chairman
Caleb D. Harris - Vice Chairman
Ronnie E. Duncan
Susan Estala
John Marzoni
Karen Williams Segel
Kenneth T. Welch



April 14, 2008

Mr. Joe Mackay, Vice President
Tara Cay Sound North Village Homeowners Association
14861 Seminole Trail
Seminole, FL 33776

Subject: Tara Cay Sound -- Erosion of Canal Banks

Dear Mr. Mackay:

Thank you for your letter of April 11, 2008, regarding the concerns about erosion along the banks of the canal in Tara Cay Sound. As you have indicated, there has been quite a bit of correspondence and discussion over the past few years related to this canal. Most has focused on the weir, which was constructed by the developer of Tara Cay Sound as part of their permitting requirements.

I am attaching two letters that described the County's position relating to the maintenance of the weir and the drainage system in general. First is a letter, dated March 8, 2002, from then Director of Public Works Keith Wicks; second is a letter, dated August 22, 2007, from Jan Herbst, Director of Public Works. Both detail that the responsibility for the maintenance of the drainage system, including the weir, lies with the homeowners' association. The County has provided assistance in the past, including a one-time only removal of excessive sediment in the canal and the development of a conceptual design for the replacement of the weir.

As we discussed on the phone Friday, any improvements or modifications are under the jurisdiction of the Southwest Florida Water Management District (SWFWMD). If they approve your plan, the County will expedite our processing of the permit that we require. Richard Alt of SWFWMD is familiar with your site and your permit and would be the best starting point. He can be reached at (813) 985-7481.

If we can provide any additional assistance or information, please let me know.

Sincerely,

Peter J. Yauch, P.E.
Director of Public Works and Transportation

Enclosures

cc: Ivan Fernandez, P.E., Division Director, Engineering Services
Michael Maroney, P.E., Senior Engineer, Surface Water
Kimberly Tracy, P.E., Assistant Director of Operations
Hamidreza Boozarjomehri, P.E., Division Engineer, Surface Water
Jan R. Herbst, P.E., Director of Production and CIP
Barbara Oklesen, Senior Assistant County Attorney

PLEASE ADDRESS REPLY TO:
440 Court Street
Clearwater, Florida 33759
Phone: (727) 464-3211
Website: www.pinellascounty.org



"E"



BOARD OF COUNTY COMMISSIONERS

- Nancy Bostock
- Neil Brickfield
- Susan Latvala
- John Morroni
- Norm Roche
- Karen Williams Seel
- Kenneth T. Welch

November 23, 2011

Thomas R. Cuba, Ph.D., CEP, CLM
 Delta Seven, Inc., Environmental Consulting
 St. Petersburg, Florida
 Via e-mail: Tom.Cuba@Delta-Seven.com

Subject: **Tara Cay Sound**
 County MSSW Permit #93-00065
 DER Permit 521633743
 SWFWMD ERP 4014985.000
CATS 38347

Dear Dr. Cuba:

In response to your request to the Board of County Commissioners, we have further researched our files as to the history of and responsibilities related to the permit referenced above. In addition, we have reviewed your Briefing Paper that was provided to the Board.

As you know, the canal in question was originally a ditch for drainage from Phase I of Indian Heights and 102nd Avenue. The developer of Tara Cay Sound desired to widen the ditch from 100 feet to 200 feet, and increase the depth from about one to two feet, to six feet. The proposed development went through a couple of years of environmental and site plan review. I see from correspondence that you were part of the review process in your former role with the County, and actually recommended against the initial development proposal in 1989.

However, the project proceeded. During the permitting process, it was clearly indicated and documented that incorporating existing off-site drainage into the site plan was required. A May 14, 1993, letter from Wayne G. Koch, P.E., of C. Fred Deuel & Associates (the developer's engineer) to Al Navarolli of the County, confirmed this requirement, and the following comment was included:

"The proposed stormwater treatment pond area and the major drainageway are planted with mitigation and enhancement plantings, and are to be conveyed by Conservation Easement to the Florida Department of Environmental Regulation (copy of proposed Conservation Easement enclosed). The owner, Tara Cay Sound, Inc., will accept all operation and maintenance responsibility for these facilities until conveyance to the homeowners' association. Prior to issuance of any operational authorization, the owner will submit a draft and/or final Articles of Incorporation for the Homeowner or Property Owner Association, which will be the ultimate operational and maintenance authority." (italics added)

PLEASE ADDRESS REPLY TO:
 OPERATIONS DEPARTMENT
 22211 U.S. Hwy. 19 North
 Clearwater, Florida 33765
 Phone: (727) 464-8900
 FAX: (727) 464-8905



Thomas R. Cuba, Ph.D.
November 23, 2011
Page Two

The letter went on to note that:

“Provision has been made for existing off-site drainage.”

In a March 25, 1996, letter from Anita A. Laudato, Vice President / Treasurer of Infiniti Property Management, Inc. (the managing agent for Tara Cay South Village Homeowners' Association), to the Association, it was noted that the mandated plantings had been removed or damaged by residents. She went on to write:

“We have been asked to also advise that intentional damage or destruction of presently existing plantings or new plantings which may be planted in the future to replace those which have been removed or destroyed, may result in action being taken against those responsible or the assessment of fines against the Tara Cay Sound South Village Homeowners' Association, Inc., *as it is the owner of these areas and responsible to the County for maintaining these areas.*” (italics added)

The documentation all indicates that the developer committed to maintain this stormwater system in exchange for the opportunity to develop the site to the level implemented. Your reference to an “apparently unwritten agreement” between the County and the Developer is clearly refuted in the May 1993 letter from the Developer's Engineer to County reviewers, and in March 1996 the management company acknowledged that they were aware of the Association's responsibility to maintain the area.

The drainage coming from off-site has not changed or increased since this permit was issued.

I have not found any indication that the requested work is something that the costs of which should be borne by County taxpayers.

Sincerely,



Peter J. Yauch, P.E.
Director, Transportation and Stormwater

Enclosures

cc: Honorable Chair and Members of the Board of County Commissioners
Robert S. LaSala, County Administrator
Kelli Levy, Watershed Management
Kim Tracy, P.E., Stormwater Management
Al Navarolli, Building and Development Review Services

C. FRED DEUEL & ASSOCIATES, INC.

CORPORATE OFFICE

CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS

BRANCH OFFICE

P.O. BOX 10116
ST. PETERSBURG, FLORIDA 33733-0116
1620 FIRST AVENUE NORTH
ST. PETERSBURG, FLORIDA 33713
(813) 822-4151
FAX (813) 821-7255

May 14, 1993

P.O. BOX 1788
ZEPHYRHILLS, FLORIDA 33539-1788
5151 NORTH GALL BOULEVARD
ZEPHYRHILLS, FLORIDA 33541
(813) 782-6717
FAX (813) 782-6426

PLEASE REPLY TO: ST. PETERSBURG OFFICE

Mr. Al Navaroli, Principal Planner
Pinellas County Land Development/Permitting Department
440 Court Street
Clearwater, FL 34616

RE: Tara Cay Sound South (f/k/a/ Newport Village)
SP# 2226.01
WO# 92-127

Dear Mr. Navaroli:

In response to your review letter dated **May 5, 1993**, we submit five sets of revised plans, with the following comments:

I. ZONING

1. Site plan #2226.01 has been incorporated on the plans.
2. Per our discussions with Mr. Navaroli, each building has two habitable floors, not exceeding the allowable 35 feet.
3. The preliminary plat, enclosed, will indicate single-family attached housing; each lot includes ownership of land beneath the unit, parking area in front of unit, and yard area to rear of unit.
4. Enclosed is the required review fee.

II. WATER DEPARTMENT

1. Plans have been revised per our meeting with the Water Department.

III. SEWER DEPARTMENT

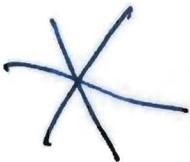
1. Sanitary sewer easements as requested are shown on plans.
2. Connection fees will be provided by owner.

Mr. Al Navaroli
May 14, 1993
Page 2

3. Requested modifications have been made to the construction plans.
4. Final plans, profiles, permits and connection fees will be submitted prior to construction.

IV. ENGINEERING DEPARTMENT

1. A legal description and other required information have been added to the cover sheet 1 of 16.
2. Existing and proposed easements are shown. The entry detail has been revised to eliminate crossing Tract A.
3. See detail Sheet 7 of 16 for cross section of construction within the right-of-way. See sheet 13 of 16 for notes regarding Minimum Testing Requirements.
4. Right-of-way utilization license applications were submitted to Mr. Patrick Fox on March 25, 1993, with plans and application fees. Revised plans and estimates will be submitted in conjunction with this response.
5. Please see attached calculations for analysis of design storm impacts on culvert system. The system is controlled by the hydraulic capacity of the culverts, rather than by the weir; the top of the weir is only 1.9 feet above the invert of the culverts, which will be almost at full capacity during design storm flows. The hydraulic grade level will drop from el. 7.5 to el. 3.87 between the culvert discharge and the weir.
6. See detail Sheet 3 of 16 for cross section of retention pond.
7. The proposed stormwater treatment pond area and the major drainageway are planted with mitigation and enhancement plantings, and are to be conveyed by Conservation Easement to the Florida Department of Environmental Regulation (copy of proposed Conservation Easement enclosed). The owner, Tara Cay Sound, Inc., will accept all operation and maintenance responsibility for these facilities until conveyance to the homeowners' association. Prior to issuance of any operational authorization, the owner will submit a draft and/or final Articles of Incorporation for the Homeowner or Property Owner Association, which will be the ultimate operational and maintenance authority. All documentation will be in accordance with Part B of the Southwest Florida Water Management



Mr. Al Navaroli
May 14, 1993
Page 3

District Basis of Review Manual, 40D4.301(1)(g) and limiting condition 40D4.381(2)(b).

8. The existing ditch running through the south quarter of the site will be designated as Upland Preservation Area and left in its natural condition.  This area will be maintained by and will remain under the control of the owner and those to whom responsibility is assigned in the future per response (7) above.
9. All proposed easements will be properly identified on the final plat.
10. Proposed finish floor elevations are shown on site plan.
11. Additional grading plan will be provided as requested.
12. Noted.
13. Required 6' driveway shoulder will be provided; see pond section sheet 3 of 16.
14. Revised cost estimates, signed and sealed, are enclosed.
- 15/16. Completion bond and maintenance bond will be provided by owner upon approval of cost estimates.
17. Valley gutter at Hamlin Boulevard will be constructed as requested. See detail sheet 13 of 16.
18. Please see site plan for required items.
19. The owner agrees to accept all responsibility for removal and replacement of the guardhouse, should such action ever be necessitated by repairs to the County's drainage facilities. See also response 12.
20. Sign has been removed from right-of-way.
21. No water from paved areas will be allowed to sheetflow onto Hamlin Boulevard.
-  22. Provision has been made for existing off-site drainage.

Mr. Al Navaroli
May 14, 1993
Page 4

23. The existing junction structure is heavily built. See attached survey of structure; note ten inch slab and slab support pillars, which will support H-20 loading.
24. FDOT Type "F" curb will be used as requested.
25. See sheet 7 of 16 for note regarding sawcut pavement.
26. See sheet 3 of 16 for appropriate note.
27. Not applicable (sidewalk waivers have been requested).
28. See sheet 7 of 16 for construction note.
29. Comment 7: Offsite grades and contours have been provided, as well as provision for conveyance for off-site flows.

Comment 33: Not applicable (the Zoning Department has determined that this road is to be a private roadway).

Comment 34: See previous response #33.
30. Noted.

V. *ENVIRONMENTAL MANAGEMENT*

1. Noted
 - a. Noted
 - b. Number of Australian pines have been noted.
 - c. Noted
 - d. Noted
 - e. Noted
2. Plans have been revised to save trees where requested.
 - a. Swale has been relocated.
 - b. Recreation building has been shifted.
 - c. Drive has been shifted.

Mr. Al Navaroli
May 14, 1993
Page 5

- d. Retaining walls have been added.
 - e. Building 17 has been moved.
 - f. Building 7 has been moved.
 - g. Utility lines have been adjusted to avoid trees.
3. Stem wall detail and locations have been added.
 4. Sheets 4 and 5 have been reviewed for consistency.
 5. Retention area has been revised; no grading will occur in areas designated as Upland Preservation Area.
 6. Trees north of Building 18 have been correctly labeled.
 7. A tree well detail has been added to Sheet 11 of 16.
 8. Trees north of existing ditch have been relabeled for preservation.
 9. Upland Preservation Area in excess of requirements have been added. See Sheet 3 of 16.
 10. Waiver of upland buffer requirements have been reviewed with County staff and is hereby formally requested.
 11. See attached narrative by Advantage Environmental Consulting. A tabulation of wetland impacts is also provided on Sheet 15 of 16 and was included with the previous submittal.
 12. See attached narrative by Advantage Environmental Consulting.
 13. The conservation easement has been added to the plans and area quantified (see Sheet 3 of 16).
 14. Noted.
 15. The Pinellas County jurisdictional line and Upland Preservation Areas have been added to Sheet 2 of 16.
 16. Plans resubmitted concurrently for site plan review and stormwater permit review are identical.

Mr. Al Navaroli
May 14, 1993
Page 6

17. The boardwalk and gazebo have been shifted as noted.
18. The ditch along the west line has been relabeled.
19. Erosion control devices have been added to Sheet 3 of 16.
20. Construction sequence for erosion and sediment control has been added to Sheet 11 of 16.
21. Hedge material has been added as requested; see Sheet 3 of 16.
22. Hedge material has been specified; see Sheet 3 of 16.
23. Irrigation note has been revised; see Sheet 11 of 16.
24. Elevations have been added to the cross section on Sheet 13 of 16.
25. Section B-B on Sheet 3 of 16 has been revised as requested.
26. Noted.
27. Noted.

If you have any questions, please contact us.

Very truly yours,
C. FRED DEUEL & ASSOCIATES, INC.


Wayne G. Koch, P.E.

WGK:рге

Enclosures

5 sets plans
Resubmittal fee
Main channel weir calculations
Revised cost estimates
Advantage Environmental Consulting narrative
Proposed Conservation Easement

cc: Mr. Robert Douglass
Mr. Lon Wadsworth

INFINITI PROPERTY MANAGEMENT,

Formerly Mata Enterprises, Inc.

INC.

SPECIALIZING IN CONDOMINIUM AND HOMEOWNERS ASSOCIATIONS

March 25, 1996

TARA CAY SOUND SOUTH VILLAGE HOMEOWNERS' ASSOCIATION, INC.
LARGO, FLORIDA

* * * * * IMPORTANT INFORMATION * * * * *

Dear Homeowner:

Now that more than seventy five percent (75%) of the units have been sold, Wadsworth Development will soon be turning the Association over to the membership. Although this office has not yet been given a date when the turnover meeting will be held, we need to start preparing for the election of the Board of Directors.

As many of you are already aware, there are some chronic situations at Tara Cay that need to be addressed such as parking problems, unsupervised children and noise complaints. Once the members elect their own Board of Directors, policies and procedures for the enforcement of the restrictions can be adopted to resolve these issues.

Once control of the Association is handed over to the members and the Board is elected, the Association will be able to make the decisions that they feel are in the best interests of all the members of Tara Cay.

At the turnover meeting, five (5) members will be elected to the Board of Directors. If you would be willing to run for election to the Board of Directors, please complete the enclosed Candidate Information Sheet and submit it to Infiniti Property Management, Inc. at the address below no later than April 29, 1996. Please type or very clearly print the information on the Candidate Information Sheet. These sheets will not be edited, proofed for spelling or typographical errors, nor will they be altered in any way by this office. They will be mailed out to the members along with the meeting notice EXACTLY the way they are received by this office.

If you wish to submit your name as a candidate for election to the Board, please take a moment to complete the enclosed Candidate Information Sheet and return it to this office.

Also enclosed is a copy of the approved 1996 Operating Budget for your review.

As an added note, please be aware that Wadsworth Development will be installing two (2) speed bumps at the request of some homeowners. There are some younger people who drive through Tara Cay at dangerously high speeds despite speed limit signs and warning letters. No one likes speed bumps but it appears that they are the only resolution to this very dangerous situation. The Association needs to do everything in their power to reduce their potential liability should someone be injured or worse on the property. Unfortunately for those who obey the speed limit, the installation of speed bumps is a necessary evil because of those who refuse to obey the speed limit and are endangering the lives of others.

FROM : INFINITI PROPERTY MANAGEMENT

Tara Cay Sound South Village Homeowners' Association, Inc.
March 25, 1996
Page 2

On a different subject, there have been some problems with residents removing mandated plantings. The banks of the canal at Tara Cay Sound, as well as the land between the townhouses and the intracoastal waterway is dedicated both to the State Department of Environmental Protection and the Pinellas County Environmental Department as an environmental preservation area. This was demanded in order for the project to be approved.

As a part of that approval process, the developer was required to plant a number of required plant species. It has come to the attention of the regulatory authorities that plantings have been removed or intentionally damaged particularly along the bank of the canal. We have been requested by the Pinellas County Regulatory officials to notify all members of the Homeowners' Association that removal or damage to any of the plantings within the environmental areas is a potential violation of Pinellas County Ordinances and even of State Law.

We have been asked to also advise that intentional damage or destruction of presently existing plantings or new plantings which may be planted in the future to replace those which have been removed or destroyed, may result in action being taken against those responsible or the assessment of fines against the Tara Cay Sound South Village Homeowners' Association, Inc, as it is the owner of these areas and responsible to the County for maintaining these areas.

As soon as the turnover meeting date is set, a notice will be mailed out advising you of the date, time and place of the meeting along with a proxy and the Candidate Information Sheets.

Looking forward to seeing you all at the meeting.

Sincerely,

INFINITI PROPERTY MANAGEMENT, INC.
Managing Agent for
TARA CAY SOUND SOUTH VILLAGE HOMEOWNERS' ASSOCIATION, INC.

Anita A. Laudato

Anita A. Laudato, L.C.A.M.
Vice President/Treasurer

AAL/se

Enclosures

"F"



Delta Seven, Inc.
Environmental Consulting TM

PO Box 3241
St. Petersburg, FL 33731

Ph: 727-823-2443

Delta-Seven@Delta-Seven.com
www.Delta-Seven.com

November 28th, 2011

Pinellas County Board of County Commissioners
Via e-mail

RE: Tara Cay Sound November 23rd 2011 correspondence from Peter Yauch, P.E.

Please forgive what may be a lengthy response, but in the interest of clarity, it is required.

The report from Mr. Yauch includes one sentence in the last substantive paragraph referencing the "apparently unwritten agreement." The point I make is a fine one, but clearly relevant and operative. The document Mr. Yauch attached (May 14, 1993, letter from Mr. Deuel, Item IV.7) is exactly as Mr. Yauch quotes but is not the agreement to which I made reference: It is in fact, the result of said agreement. Written or unwritten, the effect is the same, which is an apparently perpetual burden on private citizens to provide a public service.

There are a few other points of clarification. In reference to the easements and mitigation, it must be understood that they are not and the same. The canal banks contain the mitigation in the form of mangroves. There are other mitigation areas on site as well, and these were in compensation for the impact to other wetlands removed by the development.

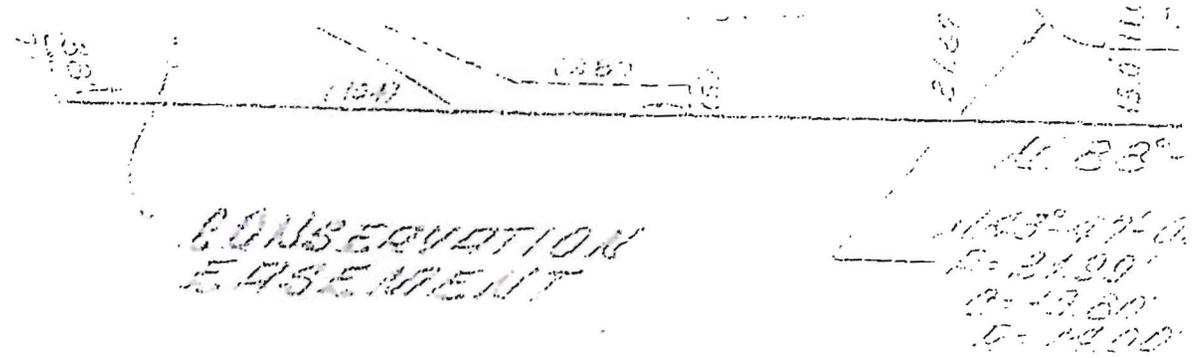
The large treatment pond was not ever intended as mitigation and would not have qualified under the rules at the time as a replacement for impacts to wetlands. The treatment pond and the mitigation areas are distinct features even if included under the same easement.

Finally, I must point out that I was never contacted by staff except to obtain a copy of the report I submitted because Mr. Yauch was never given a copy. There was no meeting. There were no discussions. The letter from Mr. Yauch simply restates the legal premise stipulated to in my original briefing paper. I ask that you each consider the conundrum as originally stated: The choice of the responsible option over the legally defensible one. To not consider the position of Mr. Yauch versus that of the people creates the situation in which redress was sought and the question referred back to the same staff who had denied the question previously.

Respectfully,

Thomas R. Cuba, Ph.D., CEP., CLM
Delta Seven Inc.

"G"



CONSERVATION EASEMENT

DEDICATION

WADSWORTH DEVELOPMENT CORPORATION, hereby certifies that it is the owner in fee simple of the land described on this plat and that there are no other outstanding interests in said lands. Said lands are hereby stated as TARA CAY and that the utility and conservation easements shown are dedicated as described below:

WADSWORTH DEVELOPMENT CORPORATION, INC. joins in this dedication for the purpose of warranting that it waives its private rights-of-way, drainage systems and appurtenances and "Tract A" created within this plat. Tract A shall be owned and maintained by Tara Cay Homeowners Association, Inc. The private rights-of-way of Tara Cay, the dimensions of which is shown on this plat, together with the conservation easement on the plat are not dedicated to the use of the public in general except as noted hereinafter but are reserved for the common use and benefit of the owners of the lots and tracts shown on this plat, their successors and/or assigns. The private rights-of-way, private easements and "Tract A" as shown on this plat are for access, ingress, egress, irrigation and including, but not limited to, public and private utilities as noted hereinafter, drainage systems and appurtenances, power, telephone, potable water distribution, police and fire protection, sanitary sewer, force main and cable television purposes and are created for the common use and benefit of the owners of the lots and tracts shown hereon, their successors and/or assigns and shall not be available to the public in general with regard thereto except as noted hereinafter. The ownership appurtenances and operation of the facilities within the private rights-of-way, "Tract A", drainage systems, water systems and private easements except as noted hereinafter shall be the responsibility of Tara Cay Homeowners Association, Inc. and the owners of the lots shown hereon, their successors and/or assigns. The use and benefit of these private rights-of-way and private easements shall extend and inure to the benefit of all local, state and federal governments, their agencies and their departments and shall also extend and inure to all duly licensed public and private utility companies and/or entities, for their use in performing and discharging their official duties and obligations to private governmental and utility services including but not limited to access, ingress, egress, ownership, maintenance, extension, and operation of their facilities for the lots in "Tract A" shown on this plat. This grant of easement shall in no manner be construed as permitting any person on the property other than for purposes of maintenance and operation of facilities, or as provided hereon, to use, with or without emergency vehicles.



LOCATION MAP

SITE DATA FOR TARA CAY SOUND NORTH VILLAGE

EXISTING	PROPOSED
UNIT PARKING & QUIET PARKING	277 UNIT PARKING (BELOW UNITS)
TOTAL PARKING	77 QUIET PARKING
RATIO = 2.25 PARKING SPACES PER UNIT	348 TOTAL PARKING

ZONING: RPD-10 (10 UNITS/AC)
 (PROPOSED SINGLE FAMILY ATTACHED USE)
 ISLAND AREA = 146,511 S.F. (3.33 AC) 12.35 AC
 CONSERVATION AREA = 36,554 S.F. (0.83 AC) 6.00 AC
 TOTAL AREA = 183,065 S.F. (4.16 AC) 18.35 AC

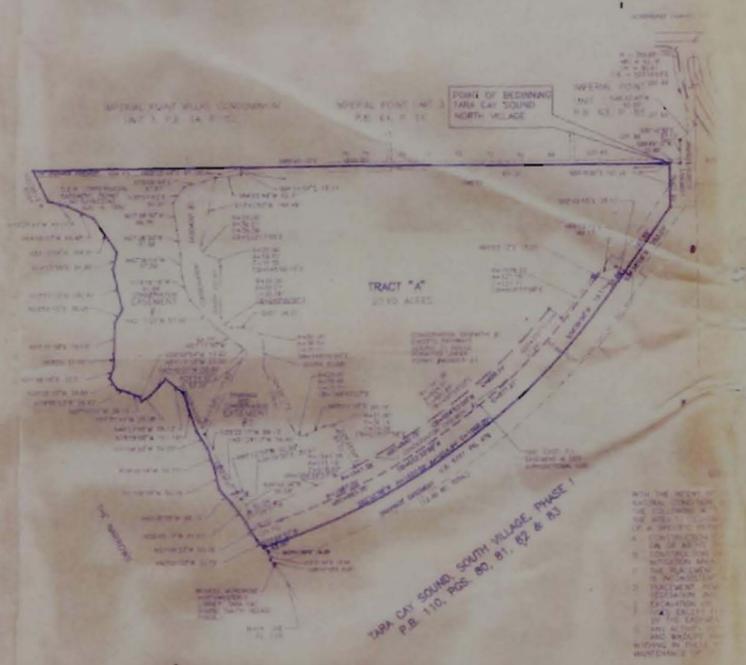
EXISTING	PROPOSED
PLANT MATERIAL	112,460 S.F. (2.57 AC)
LANDSCAPE	112,460 S.F. (2.57 AC)
TREES	112,460 S.F. (2.57 AC)
CONSERVATION	112,460 S.F. (2.57 AC)

EXISTING	PROPOSED
CONSERVATION	112,460 S.F. (2.57 AC)
LANDSCAPE	112,460 S.F. (2.57 AC)
TREES	112,460 S.F. (2.57 AC)
CONSERVATION	112,460 S.F. (2.57 AC)

UNIT DIMENSIONS OF TRAIL
 8' UNIT - 10' OF 20' UNITS
 4' UNIT - 2' OF 8' UNITS
 16' TOTAL UNITS

TARA CAY SOUND NORTH VILLAGE

PINELLAS COUNTY, FLORIDA
 SECTION 19 TOWNSHIP 30 SOUTH RANGE 16 EAST



APPROVED CONSTRUCTION PLAN
 SURFACE WATER PERMIT NO. 93-0065.20
 By Paul C. Dewey
 Date AUG 22 1995
 PINELLAS COUNTY
 LAND DEVELOPMENT/PERMITTING DIV.

SHEET NUMBER	SHEET TITLE
1 OF 14	COVER SHEET/INDEX/SURVEY
2 OF 14	TREES/CONSERVATION
3 OF 14	SITE PLAN
4 OF 14	GRADING PLAN
5 OF 14	DRAINAGE BASINS
6 OF 14	PLAN & PROFILE (1)
7 OF 14	PLAN & PROFILE (2)
8 OF 14	LANDSCAPE PLAN
9 OF 14	DETAILS (1)
10 OF 14	DETAILS (2)
11 OF 14	DETAILS (3)
12 OF 14	MITIGATION PLAN
13 OF 14	MITIGATION DETAILS
14 OF 14	CONSERVATION EASEMENT & UPLAND BUFFER

OWNER / DEVELOPER:
 TARA CAY SOUND, INC.
 8351 BLIND PASS ROAD
 ST. PETE BEACH, FL. 33706
 TEL: (813) 387-5614

RECEIVED
 AUG 22 1995
 PINELLAS COUNTY
 ZONING DIVISION

ENGINEER/SURVEYOR:
 C. FRED DEUEL & ASSOCIATES, INC.
 1620 FIRST AVE. NORTH
 ST. PETERSBURG, FL. 33713
 TEL: (813) 822-4151 FAX: (813) 821-7255

AUG 10 1995

C. Fred Deuel and Associates, Inc.

TARA CAY SOUND NORTH VILLAGE

Paul C. Dewey

D.E.R. CONSERVATION EASEMENT, PERMIT NO. 521633743 AUG. 4, 1992

CONSERVATION EASEMENT #1

TRACT "A"

TARA CAY SOUND, SOUTH VILLAGE, PHASE I



BUILDINGS, ROADWAY, PARKING AREAS AND OTHER MAJOR IMPROVEMENTS WILL BE FIELD-GUARDED TO SAVE DESIRABLE TREES, MINIMUM DISTANCE SHALL BE MAINTAINED

NOT VALID UNLESS EMBOSSED WITH A SEAL THIS STAMP IS RED

SP#2226.02

DESIGN	DCL
DRAWN	KMT
CHECKED	DCL
DATE	8/10/95

C. Fred Deuel and Associates, Inc. CONSULTING ENGINEERS - LAND SURVEYORS - LAND PLANNERS ST. PETERSBURG - ZEPHYRUS

TARA CAY SOUND, NORTH VILLAGE SITE PLAN PINELLAS COUNTY

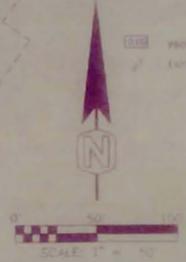
AUG 10 1995

D.E.R. CONSERVATION
EASEMENT, PERMIT
NO. 521633743
AUG. 4, 1992

CONSERVATION
EASEMENT
#1

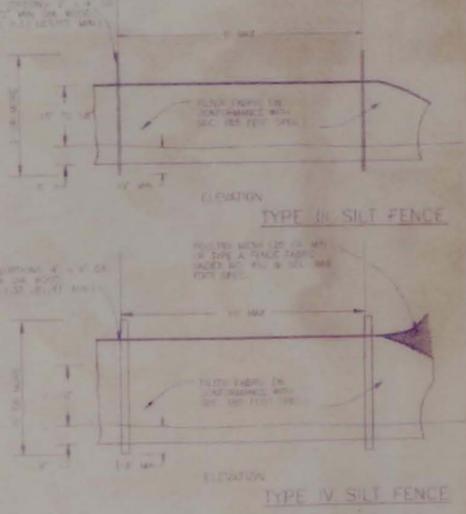
TRACT "A"

TARA CAY SOUND, SOUTH VILLAGE, PHASE I

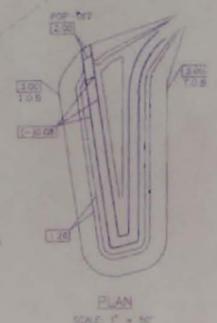


PLANTING SCHEME LEGEND

SYMBOL	DESCRIPTION	QUANTITY
(1)	PLANTING SCHEME	1000 PLANTS
(2)	PLANTING SCHEME	1000 PLANTS
(3)	PLANTING SCHEME	1000 PLANTS
(4)	PLANTING SCHEME	1000 PLANTS



SILT SCREEN BARRIER DETAILS
PAGE AREA NO. 102



TREATMENT AREA - PLAN & PLANTING SCHEME

VALID UNLESS
COVERED WITH A SEAL
THIS STAMP IS RED

REV#	DATE	BY	CHKD	DESCRIPTION
1	7/27	KMZ	DCL	ADD TREATMENT AREA & PLANTING SCHEME
2	8/15	KMZ	DCL	REVISED

C. Fred Deuel and Associates, Inc.
CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS
ST. PETERSBURG • TEPHRYHILLS

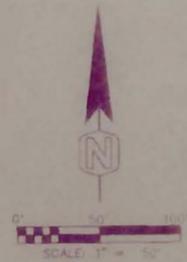
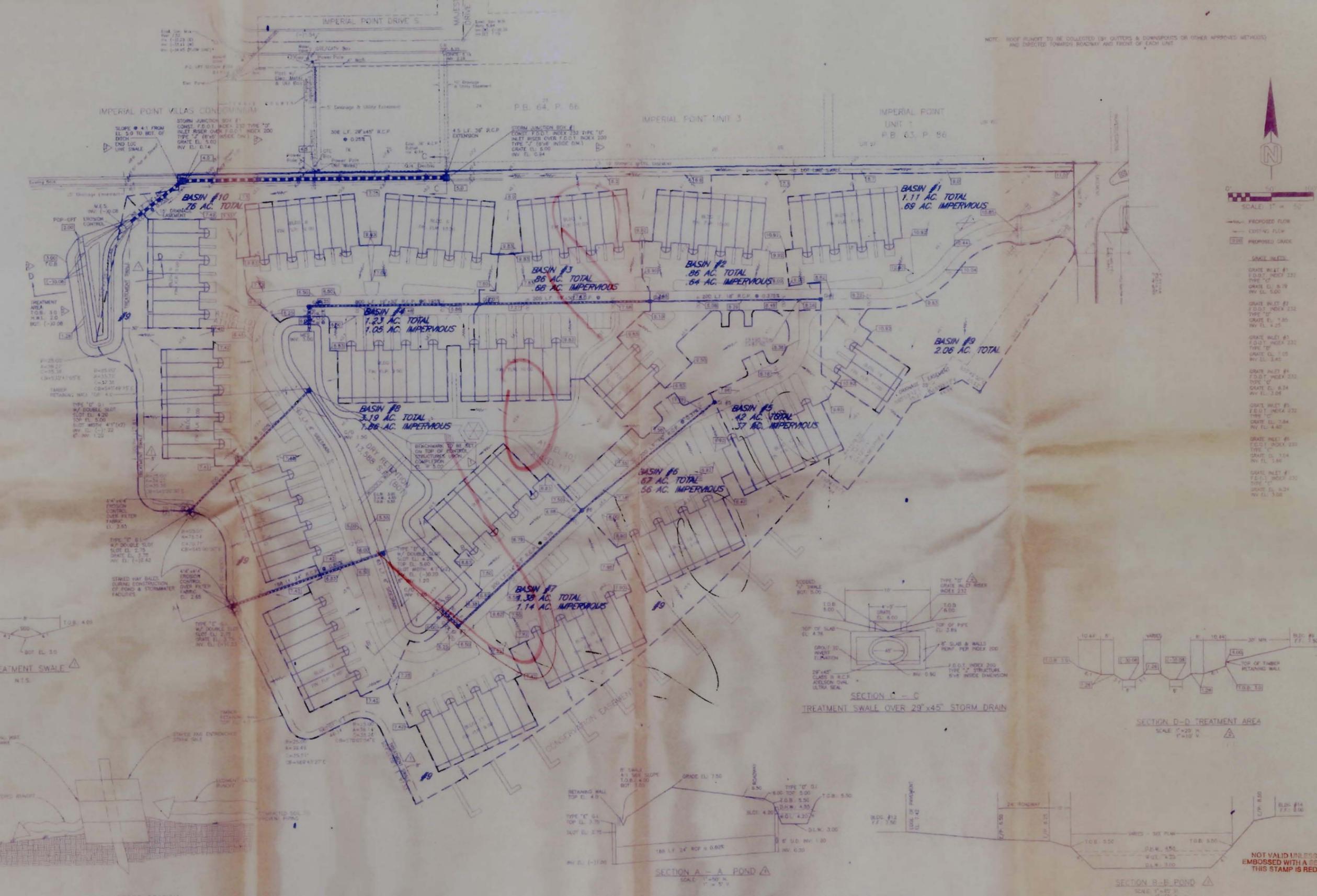
TARA CAY SOUND, NORTH VILLAGE
GRADING PLAN
PRELIMINARY

SP#2226.02

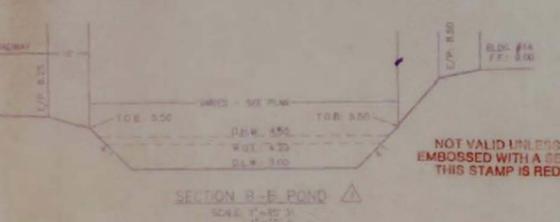
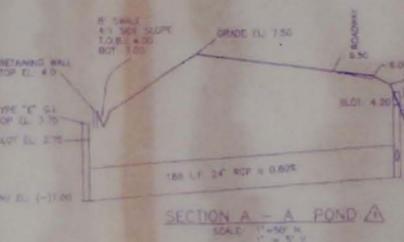
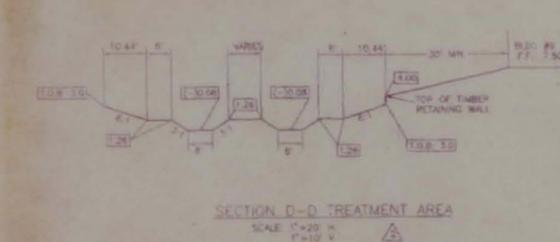
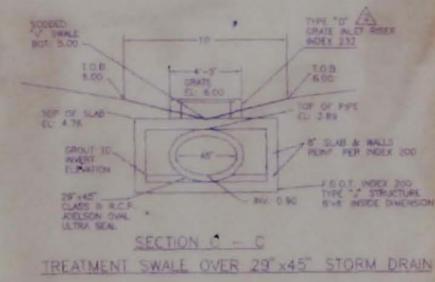
AUG 10 1995
Professional Engineer Seal

ORDER NO. 94-000
DATE 7/27/95
SCALE 1" = 50'
SHEET NO. 4 OF 14

NOTE: ROOF RUNOFF TO BE COLLECTED BY GUTTERS & DOWNSPOUTS OR OTHER APPROVED METHODS AND DIRECTED TOWARDS ROADWAY AND FRONT OF EACH UNIT.

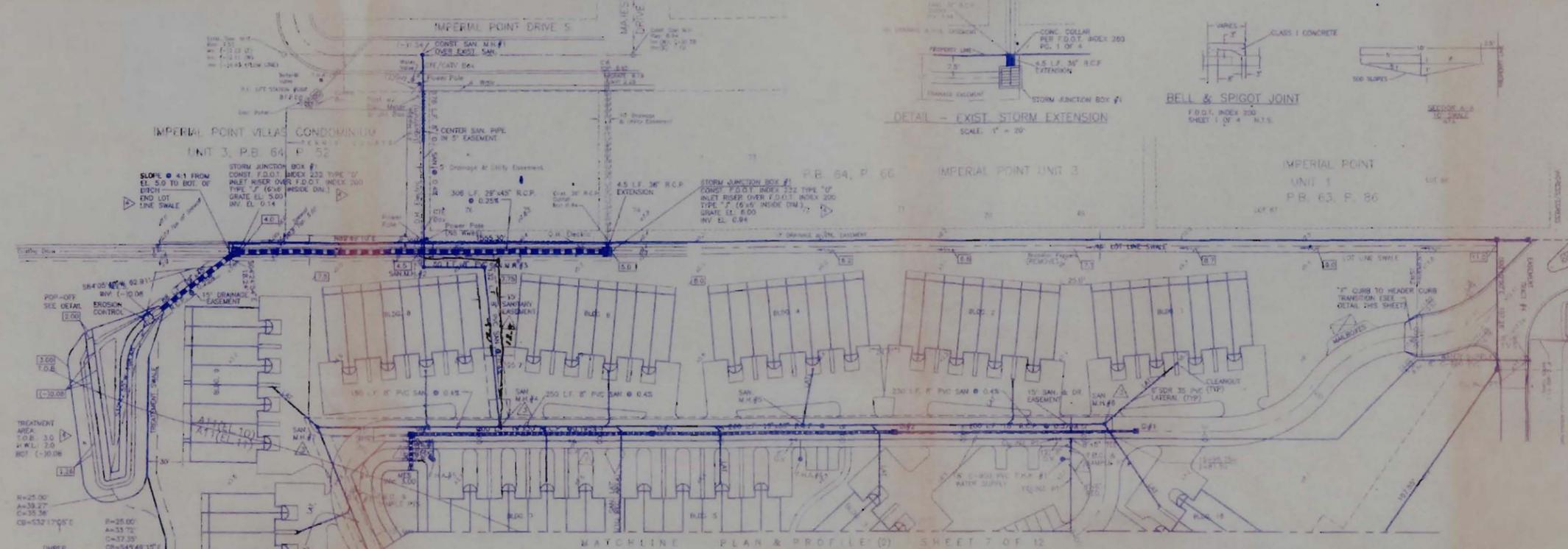


- SCALE: 1" = 50'**
- PROPOSED FLOW
 - EXISTING FLOW
 - PROPOSED GRADE
- GRATE INLETS:**
- GRATE INLET #1: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 5.19, INV. EL. 5.00
 - GRATE INLET #2: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 7.00, INV. EL. 4.25
 - GRATE INLET #3: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 7.00, INV. EL. 3.40
 - GRATE INLET #4: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 6.74, INV. EL. 3.08
 - GRATE INLET #5: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 7.04, INV. EL. 4.40
 - GRATE INLET #6: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 7.04, INV. EL. 3.80
 - GRATE INLET #7: F.O.D.T. INDEX 232, TYPE "1" GRATE, EL. 6.24, INV. EL. 3.58



NOT VALID UNLESS EMBOSSED WITH A SEAL THIS STAMP IS RED

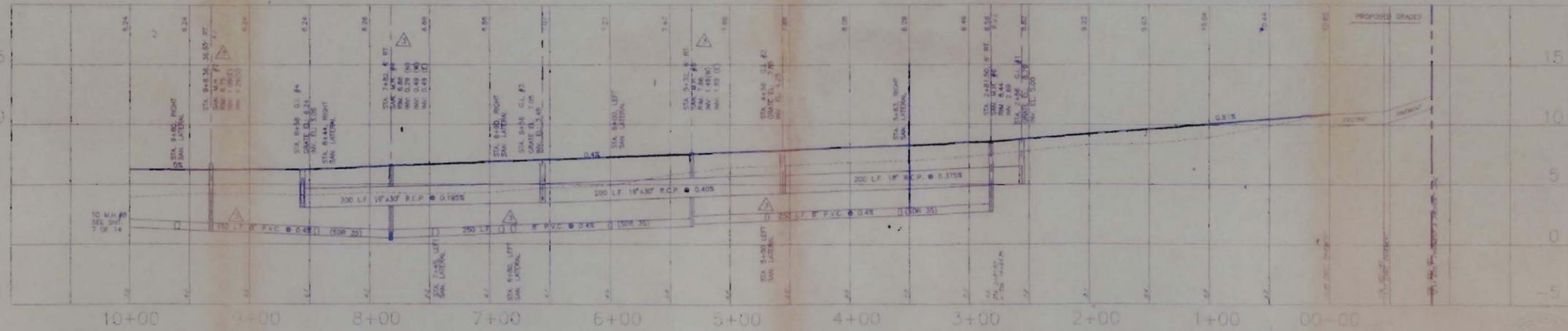
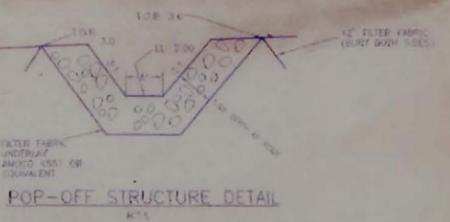
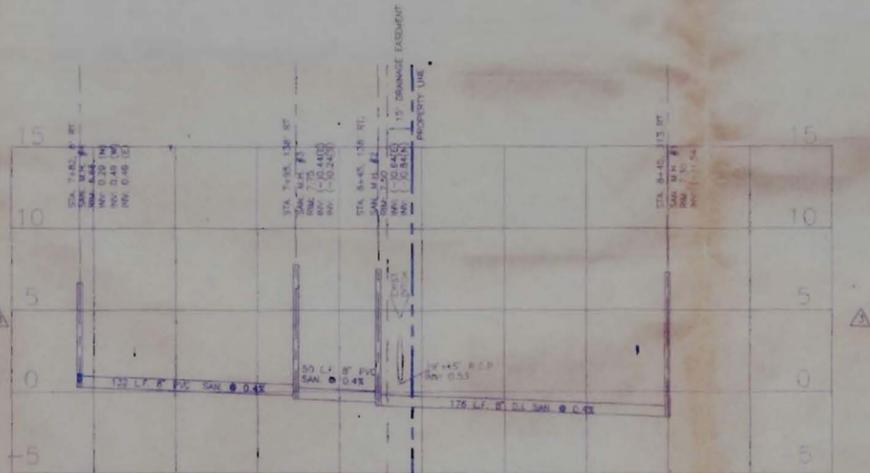
<p>SP#2226.02</p> <p>TARA CAY SOUND, NORTH VILLAGE DRAINAGE PLAN</p> <p>PINELLAS COUNTY, FLORIDA</p>		<p>C. Fred Deuel and Associates, Inc.</p> <p>CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS</p> <p>ST. PETERSBURG • ZEPHYRUS</p>		<p>PROJ. NO. 19-000</p> <p>DATE: 2-1-75</p> <p>SCALE: 1" = 50'</p> <p>DATE: 2-1-75</p>	
<p>REV. DATE</p> <p>REV. DATE</p> <p>REV. DATE</p>	<p>REVISION</p> <p>REVISION</p> <p>REVISION</p>	<p>DESIGN: DCL</p> <p>DRAWN: KMZ</p> <p>CHECKED: DCL</p>	<p>DATE: 2-1-75</p> <p>SCALE: 1" = 50'</p> <p>DATE: 2-1-75</p>	<p>PROJ. NO. 19-000</p> <p>DATE: 2-1-75</p> <p>SCALE: 1" = 50'</p> <p>DATE: 2-1-75</p>	<p>PROJ. NO. 19-000</p> <p>DATE: 2-1-75</p> <p>SCALE: 1" = 50'</p> <p>DATE: 2-1-75</p>



MATCHLINE PLAN & PROFILE (D) SHEET 7 OF 12

NOTE: ROOF RUNOFF TO BE COLLECTED BY GUTTERS & DOWNSPOUTS OR OTHER APPROVED METHODS AND DIRECTED TOWARDS ROADSIDE AND FRONT OF EACH UNIT.

- NOTES:**
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FLORIDA BUILDING CODE AND THE FLORIDA ELECTRICAL CODE.
 - 2. ALL WATERMAIN TO BE 12" DIA. 150 PSI CLASS C-VOL. 200-18 PER A.S.T.M. A-53 (SEE SHEET 11 OF 12).
 - 3. ALL WATERMAIN TO BE 12" DIA. 150 PSI CLASS C-VOL. 200-18 PER A.S.T.M. A-53 (SEE SHEET 11 OF 12).
- VERTICAL CURVES OF GRADES:**
- GRADE INLET #1: F.D.O.T. INDEX 233, TYPE "C", GRATE EL. 8.79, INV. EL. 5.00
 - GRADE INLET #2: F.D.O.T. INDEX 232, TYPE "D", GRATE EL. 7.85, INV. EL. 4.25
 - GRADE INLET #3: F.D.O.T. INDEX 232, TYPE "D", GRATE EL. 7.05, INV. EL. 3.45
 - GRADE INLET #4: F.D.O.T. INDEX 232, TYPE "D", GRATE EL. 6.24, INV. EL. 3.08
- HORIZONTAL SEPARATION BETWEEN PARALLEL LINES:**
- ALL SANITARY SEWERS SHALL BE INSTALLED AT LEAST 18 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DEFLECT SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 18-FT. SEPARATION, THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON THE SIDE OF THE TRENCH AND AT AN ELEVATION SO THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE CONCRETE AND THE WATER AND SEWER JOINTS SHALL BE STAGGERED.
 - ALL FORCE MAINS SHALL BE INSTALLED AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.



NOT VALID UNLESS EMPLOYED WITH A SEAL THIS STAMP IS RED

BENCHMARK TO BE SET ON TOP OF CONTROL STRUCTURE FROM CONFLUENCE EL. 5.92

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 4.20
SLOPE WIDTH 4' (34")
GRATE EL. (-) 1.12
INVERT EL. 4.20

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 3.75
SLOPE WIDTH 4' (34")
GRATE EL. 3.75
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 3.25
SLOPE WIDTH 4' (34")
GRATE EL. 3.25
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 2.75
SLOPE WIDTH 4' (34")
GRATE EL. 2.75
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 2.25
SLOPE WIDTH 4' (34")
GRATE EL. 2.25
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 1.75
SLOPE WIDTH 4' (34")
GRATE EL. 1.75
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 1.25
SLOPE WIDTH 4' (34")
GRATE EL. 1.25
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 0.75
SLOPE WIDTH 4' (34")
GRATE EL. 0.75
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 0.25
SLOPE WIDTH 4' (34")
GRATE EL. 0.25
INVERT EL. (-) 1.12

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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
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GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
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INVERT EL. (-) 1.12

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GRATE EL. 0.00
INVERT EL. (-) 1.12

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GRATE EL. 0.00
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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
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SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12

TYPE "C" 6" W/ DOUBLE SLOT
SLOPE EL. 0.00
SLOPE WIDTH 4' (34")
GRATE EL. 0.00
INVERT EL. (-) 1.12



- MANHOLE DATA**
- MANHOLE #8
RIM EL. 5.24
INVERT EL. 3.25 (N)
 - MANHOLE #9
RIM EL. 5.00
INVERT EL. 3.00 (N)
 - MANHOLE #10
RIM EL. 4.75
INVERT EL. 2.75 (N)
 - MANHOLE #11
RIM EL. 4.50
INVERT EL. 2.50 (N)
 - MANHOLE #12
RIM EL. 4.25
INVERT EL. 2.25 (N)
 - MANHOLE #13
RIM EL. 4.00
INVERT EL. 2.00 (N)
 - MANHOLE #14
RIM EL. 3.75
INVERT EL. 1.75 (N)
 - MANHOLE #15
RIM EL. 3.50
INVERT EL. 1.50 (N)
 - MANHOLE #16
RIM EL. 3.25
INVERT EL. 1.25 (N)
 - MANHOLE #17
RIM EL. 3.00
INVERT EL. 1.00 (N)
 - MANHOLE #18
RIM EL. 2.75
INVERT EL. 0.75 (N)
 - MANHOLE #19
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INVERT EL. 0.50 (N)
 - MANHOLE #20
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INVERT EL. 0.25 (N)
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INVERT EL. 0.00 (N)
 - MANHOLE #22
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INVERT EL. 0.00 (N)
 - MANHOLE #23
RIM EL. 1.50
INVERT EL. 0.00 (N)
 - MANHOLE #24
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INVERT EL. 0.00 (N)
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 - MANHOLE #26
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 - MANHOLE #30
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INVERT EL. 0.00 (N)
 - MANHOLE #31
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INVERT EL. 0.00 (N)
 - MANHOLE #32
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #33
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 - MANHOLE #62
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #63
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #64
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #65
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #66
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #67
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #68
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #69
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #70
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #71
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #72
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #73
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #74
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #75
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #76
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #77
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #78
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #79
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #80
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #81
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #82
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #83
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #84
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #85
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #86
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #87
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #88
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #89
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #90
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #91
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #92
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #93
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #94
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #95
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #96
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #97
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #98
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #99
RIM EL. 0.00
INVERT EL. 0.00 (N)
 - MANHOLE #100
RIM EL. 0.00
INVERT EL. 0.00 (N)



NOTE: ROOF RUNOFF TO BE COLLECTED BY GUTTERS & DOWNPOUTS OR OTHER APPROVED METHODS AND DIRECTED TOWARDS ROADWAY AND FRONT OF EACH UNIT

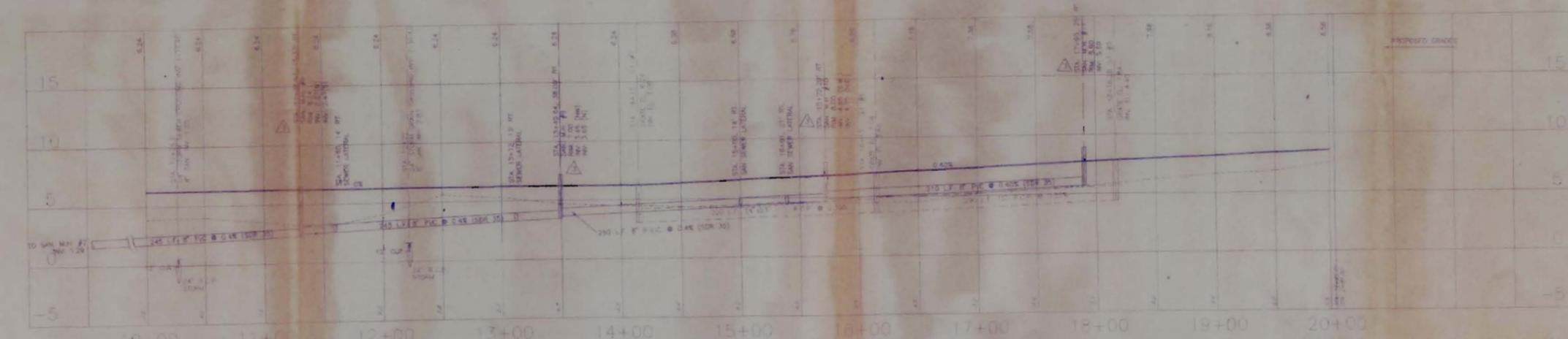
- NOTES**
- ALL SEWER LINES TO BE 18" DIA. PVC.
 - ALL WATERWAYS TO BE 18" DIA. CONCRETE PIPE.
 - ALL SEWER LINES TO BE 18" DIA. CONCRETE PIPE WITH TYPICAL SLOPE.

VERTICAL CLEARANCE AT CROSSINGS

SEWER LINES TO CROSS UNDER EXISTING WATER MAINS SHALL BE INSTALLED AT A MINIMUM VERTICAL CLEARANCE OF 18" UNLESS OTHERWISE SPECIFIED. THE CLEARANCE SHALL BE MEASURED TO THE TOP OF THE WATER MAIN AND THE BOTTOM OF THE SEWER PIPE. THE WATER MAIN SHALL BE PROTECTED FROM DAMAGE BY THE SEWER PIPE BY INSTALLING A MINIMUM 18" DIA. CONCRETE PIPE WITH TYPICAL SLOPE.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE PIPES SHALL BE INSTALLED AT THE MINIMUM VERTICAL CLEARANCE OF 18" UNLESS OTHERWISE SPECIFIED. THE CLEARANCE SHALL BE MEASURED TO THE TOP OF THE WATER MAIN AND THE BOTTOM OF THE SEWER PIPE. THE WATER MAIN SHALL BE PROTECTED FROM DAMAGE BY THE SEWER PIPE BY INSTALLING A MINIMUM 18" DIA. CONCRETE PIPE WITH TYPICAL SLOPE.

SEWER MANHOLES SHALL BE INSTALLED AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.



THIS DRAWING SHALL BE USED WITH A SEAL & STAMP IS RED

<p>REV. DATE</p> <p>1/21 REV. SAN. LAYOUT, REV. DR. STRUCT. INVERTS KMZ</p> <p>6/29 ADD TWO 6" GATE VALVES KMZ</p> <p>5/27 REVISE WATER, DRAINAGE & SEWER PER P.N. CO. KMZ</p>	<p>DESIGN DCL</p> <p>DRAWN KMZ</p> <p>CHECKED DCL</p>	<p>C. Fred Deuel and Associates, Inc.</p> <p>CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS</p> <p>ST. PETERSBURG • ZEPHYRHILLS</p>	<p>TARA CAY SOUND, NORTH VILLAGE</p> <p>PLAN & PROFILE (2)</p> <p>PNELLAS COUNTY FLORIDA</p>	<p>FLORIDA ENGINEER'S REGISTRATION NO. 8888</p> <p>FLORIDA SURVEYOR'S REGISTRATION NO. 8888</p> <p>DATE: 2/8/95</p> <p>SCALE: 1"=50' (H), 1"=5' (V)</p> <p>SHEET NO. 7 OF 14</p>
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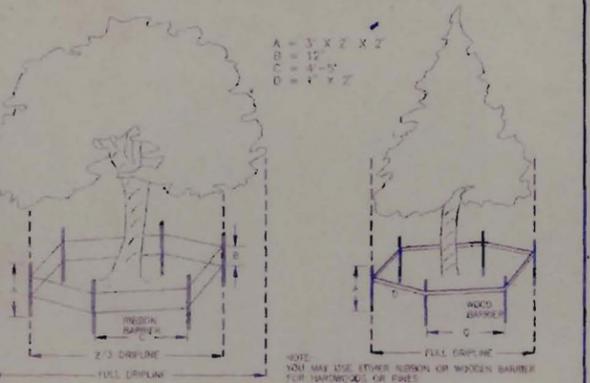
D.E.R. CONSERVATION EASEMENT, PERMIT NO. 521633743 AUG. 4, 1992

CONSERVATION EASEMENT #1

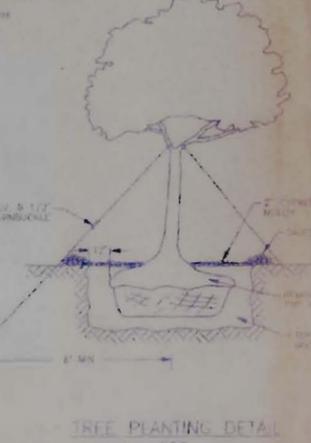
CONSERVATION EASEMENT #2



- TYPICAL REQUIRED PROTECTIVE BARRIER WITH PINELLAS COUNTY**
- 1. TO PROTECT THE EXISTING TREES FROM CONSTRUCTION EQUIPMENT AND TO PREVENT SOIL EROSION AND TO PREVENT THE SPREAD OF DIRT AND DEBRIS TO ADJACENT AREAS.
 - 2. TO MAINTAIN THE EXISTING TREES AND TO PREVENT THE SPREAD OF DIRT AND DEBRIS TO ADJACENT AREAS.
 - 3. TO MAINTAIN THE EXISTING TREES AND TO PREVENT THE SPREAD OF DIRT AND DEBRIS TO ADJACENT AREAS.
- CONSTRUCTION NOTES:**
1. ALL EXISTING TREES TO REMAIN SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 2. ALL EXISTING TREES TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.
 3. ALL EXISTING TREES TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.



- TREE LEGEND:**
- EXISTING TREES TO REMAIN
 - NEW TREES TO BE PLANTED
 - REPLANT SPECIES
 - LANDSCAPE TREES
 - VEHICULAR USE AREA
 - PROPOSED REPLANT TREES
 - LIVE OAK
 - SCISSOR GRASS
 - AMERICAN BIRCH
 - CABBAGE PALM
 - FLORIDA PALM
 - WAX MYRTLE



LANDSCAPING SPECIFICATIONS

1. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.

2. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.

3. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.

LANDSCAPING NOTES

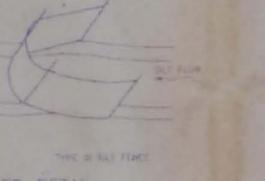
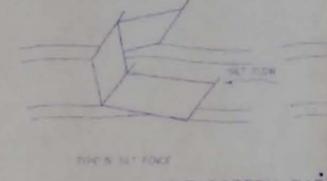
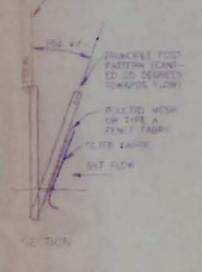
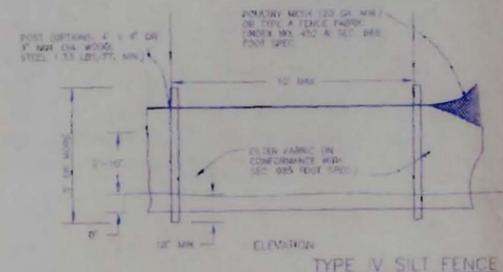
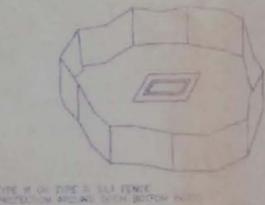
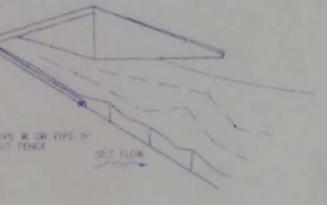
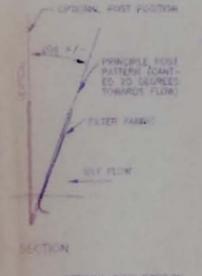
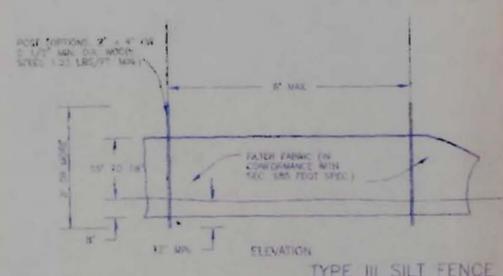
1. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.
2. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.
3. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND THE COUNTY ORDINANCES.

REV#	DATE	REVISION	BY	REV#	DATE	REVISION	BY
2	8/30	ADDITIONAL LANDSCAPE TREES PER PINELLAS CO.	KMZ				
1	4/5	REVISE PER PINELLAS CO. LANDSCAPE COMMENTS	KMZ				

C. Fred Deuel and Associates, Inc.
CONSULTING ENGINEERS - LAND SURVEYORS - LAND PLANNERS
ST. PETERSBURG - ZEPHYRHILLS

TARA CAY SOUND, NORTH VILLAGE LANDSCAPE PLAN
PINELLAS COUNTY FLORIDA

WORK ORDER NO. 94-005
DATE: 2/8/95
SCALE: 1" = 50'
SHEET NO. 8 OF 14

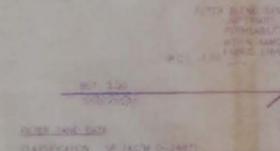
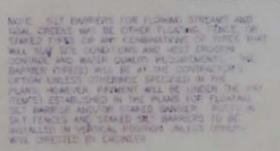


SILT FENCE APPLICATIONS

DO NOT DETOUR IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT LANDLIFT LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BARRIERS OF WATER.

SILT SCREEN BARRIER DETAIL

F.O.D.T. INDEX NO. 102
N.T.S.

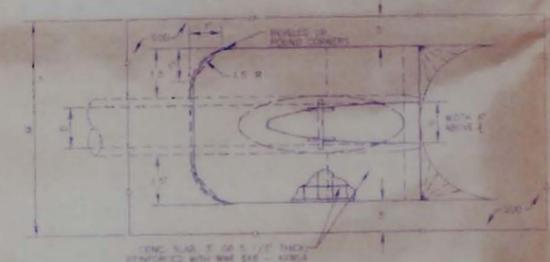
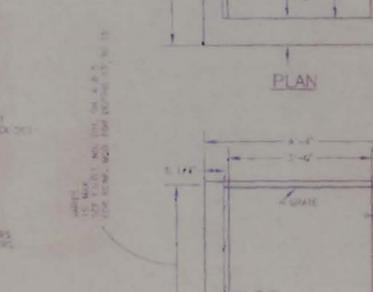
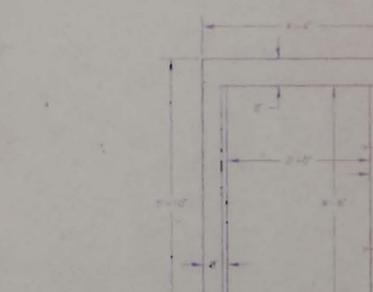
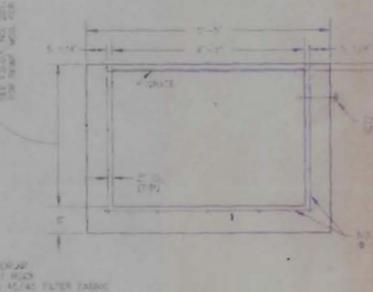
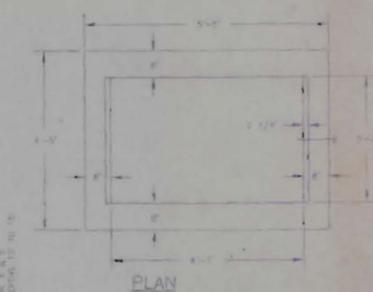
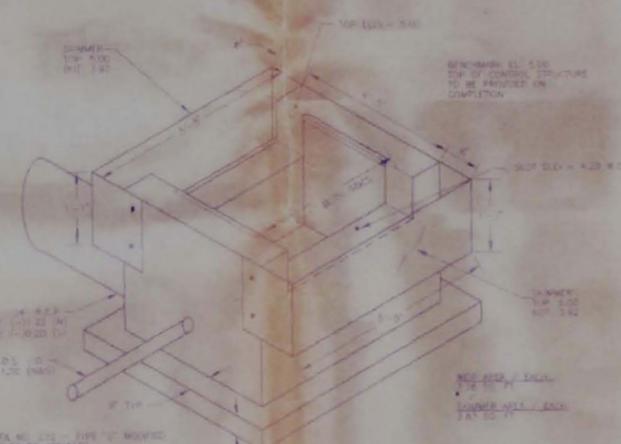


SILT SCREEN BARRIER DETAILS

F.O.D.T. INDEX NO. 102
N.T.S.

TYPICAL POND SECTION AND UNDERDRAIN FILTER SYSTEM DETAIL

N.T.S.



TYPE 'D' - STEEL GRATE

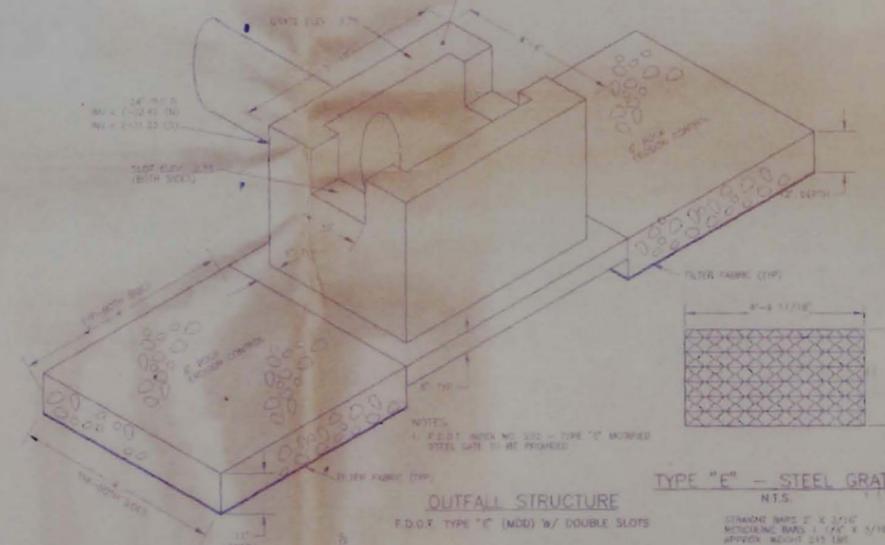
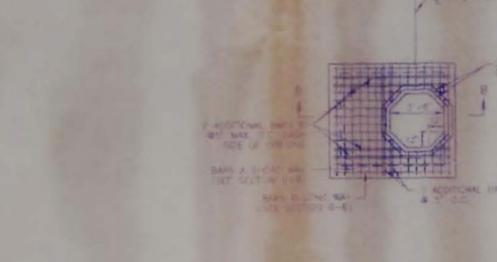
N.T.S.

STANDARD BARS 2" x 1/4" APPROX WEIGHT 180 LBS.



CONTROL STRUCTURE - MODIFIED TYPE 'D'

N.T.S.



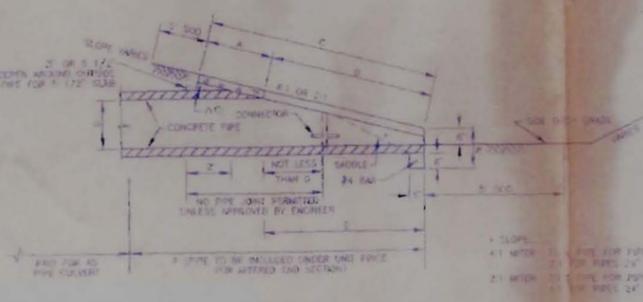
OUTFALL STRUCTURE

F.O.D.T. TYPE 'C' (MOD) W/ DOUBLE SLOTS

TYPE 'E' - STEEL GRATE

N.T.S.

STANDARD BARS 2" x 1/4" APPROX WEIGHT 215 LBS.



CROSS DRAIN MITERED END SECTION

F.O.D.T. INDEX NO. 272

TOP SLAB REINFORCING STEEL DIAGRAM

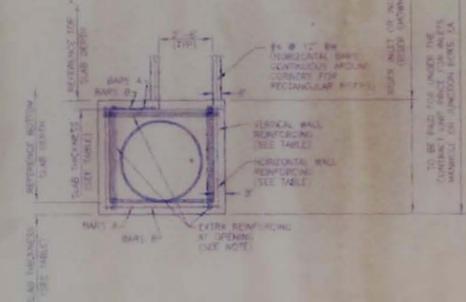


STRUCTURE BOTTOM TYPE 'C'

F.O.D.T. INDEX NO. 200 - ALT. B
N.T.S.

ALTERNATE B

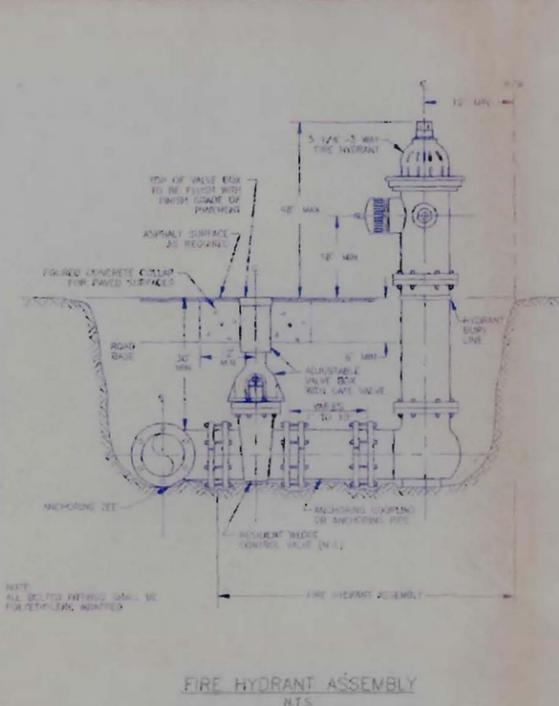
SECTION B-B



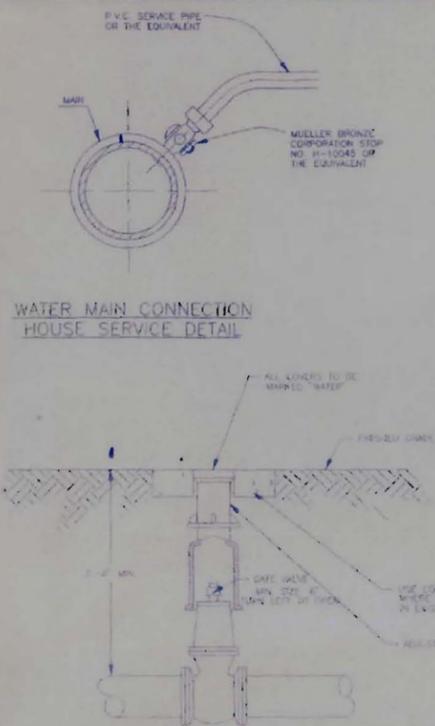
NOTE: PROVIDE EXTRA REINFORCING EACH SIDE OF EACH OPENING AT 2" MAX. SPACING EQUAL TO HALF THE AREA OF ORIGINAL REINFORCEMENT PROVIDED BY THE OPENING AND PROVIDE THE SAME AREA OF REINFORCEMENT ABOVE EACH OPENING AT 2" MAX. SPACING AS REMOVED BY THE OPENING.

NOT VALID UNLESS EMBOSSED WITH A SEAL THIS STAMP IS RED

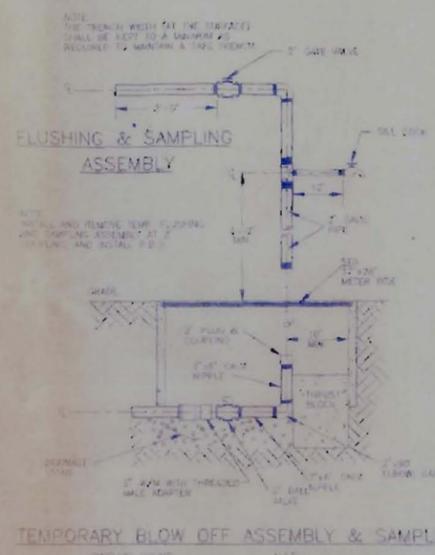
DESIGN	DCL	C. Fred Deuel and Associates, Inc.	TARA CAY SOUND - NORTH VILLAGE DETAILS (1)	FLORIDA SURVEYOR'S REGISTRATION NO. 3286	WORK ORDER NO. 24-505
DRAWN	KMZ				
CHECKED	DCL	CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS	PIRELLAS COUNTY	FLORIDA	DATE: 2/9/85
BY		ST. PETERSBURG • ZEPHYRUS	SP#2226.02		SCALE: AS NOTED
REV. DATE	REVISION				SHEET NO. 9 OF 14



FIRE HYDRANT ASSEMBLY
N.T.S.

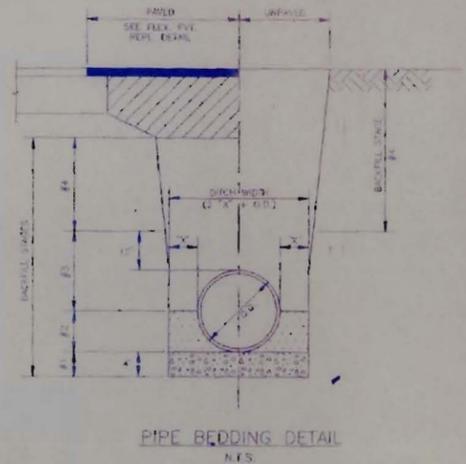


WATER MAIN CONNECTION
HOUSE SERVICE DETAIL



FLUSHING & SAMPLING
ASSEMBLY

TEMPORARY BLOW OFF ASSEMBLY & SAMPLE TAP
N.T.S.



PIPE BEDDING DETAIL
N.T.S.

WIDTH AT PIPE REQUIRED TO COMPACT BEDDING	
PIPE O.D.	MIN.
12\"/>	
18\"/>	
24\"/>	

NOTE:
THE TRENCH WIDTH AT THE SURFACE SHALL BE 3\"/>

VALVE AND VALVE BOX DETAIL

- 1. PIPES SHALL BE INSTALLED ON ALL LIVES HIGH PRESENT & FUTURE SERVICES TO PROVIDE DEPTH AT SERVICE NOT OVER 4\"/>
- 2. MINIMUM CUT UNDER ROADWAY - 4\"/>
- 3. MINIMUM CUT AT PROPERTY LINE - 3\"/>
- 4. PIPES SHALL PREFERABLY FOLLOW SLOPE OF MAIN TO REQUIRED DEPTH.
- 5. PIPER MATERIAL SHALL BE THE SAME AS MAIN MATERIAL.

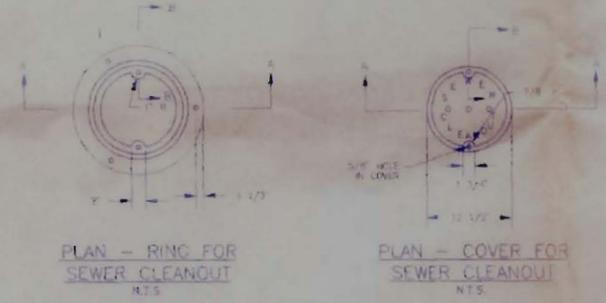
WATER/SEWER CLEARANCE REQUIREMENTS

VERTICAL CLEARANCE AT CROSSINGS
GRAVITY SEWERS OR PIPES CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE TOP OF THE LOWER PIPE AND THE BOTTOM OF THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER MAINS WILL BE EQUIVALENT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE THE MINIMUM 18 INCH SEPARATION CANNOT BE MAINTAINED, THE SEWER SHALL BE PLACED IN A SLEEVE OR ENCASED IN CONCRETE FOR 25 FEET CENTERED ON THE POINT OF CROSSING.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE PIPES SHALL BE CENTERED AT THE CROSSING AS INDICATED ABOVE, AND THE WATER MAIN SHALL BE PLACED IN A SLEEVE ENCASED IN CONCRETE FOR 25 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SLEEVE TO PREVENT DAMAGE TO THE WATER MAIN.

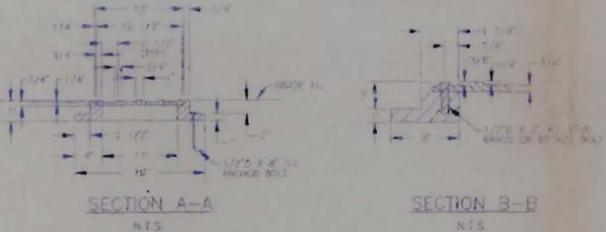
HORIZONTAL SEPARATION BETWEEN PARALLEL LINES
A. GRAVITY SEWERS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED FROM THE EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10-FT SEPARATION THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDEVELOPED EARTH SHOULDER IN THE CASE OF NEW SEWERS AND AT AN OVERHEAD JOINT THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER AND THE WATER AND SEWER JOINTS SHALL BE STAGGERED.

B. PIPES SHALL BE INSTALLED AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.



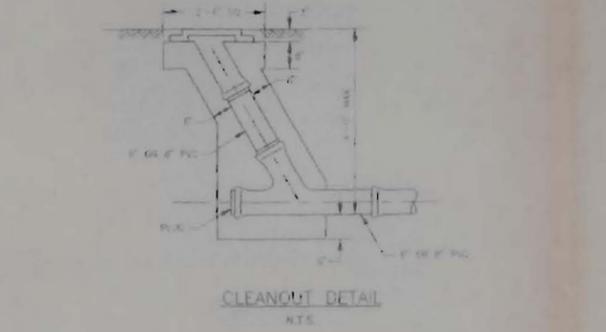
PLAN - RING FOR
SEWER CLEANOUT
N.T.S.

PLAN - COVER FOR
SEWER CLEANOUT
N.T.S.

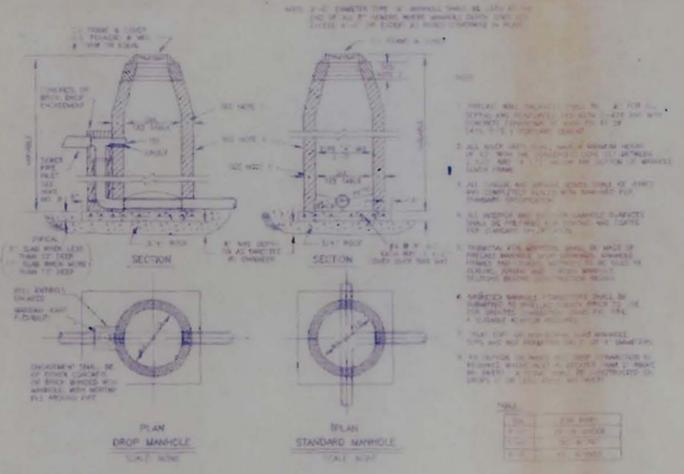


SECTION A-A
N.T.S.

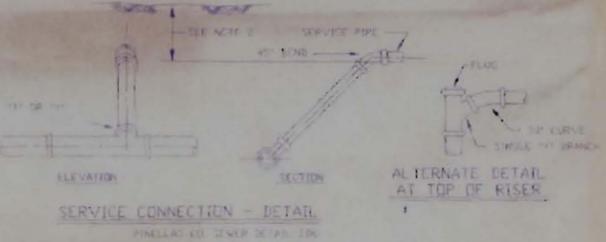
SECTION B-B
N.T.S.



CLEANOUT DETAIL
N.T.S.



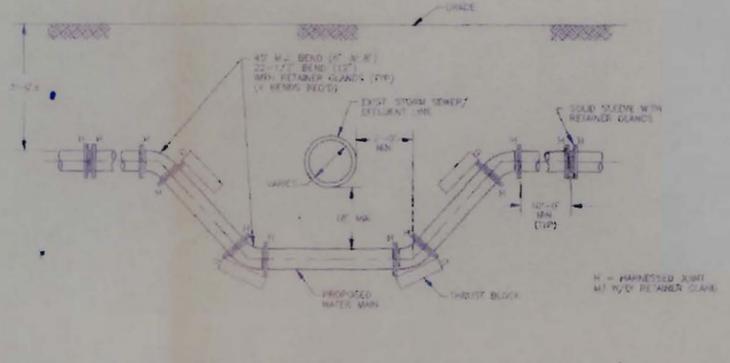
STANDARD & DROP MANHOLE DETAIL
PINELLAS CO. SEWER DETAIL SD2



SERVICE CONNECTION - DETAIL
PINELLAS CO. SEWER DETAIL SD2



ALTERNATE DETAIL
AT TOP OF RISER



VERTICAL ADJUSTMENT OF WATER MAINS
N.T.S.
APPLIES TO AFFILIANT
WATER MAIN SIZES OF THREE (3)\"/>

NOT VALID UNLESS
EMBOSSSED WITH A SEAL
THIS STAMP IS RED

SP#2226.02.



PLANTING LEGEND:

TREE SPECIES SYMBOL	BOTANICAL NAME	COMMON NAME	PLANT NO.
(Symbol)	CONOCARPUS ERECTUS	COXTONWOOD	45
(Symbol)	3 GALLON SIZE 17' ±		5 PER GROUP, SEE PLAN VIEW FOR LOCATION ELEVATION 2.5 - 3.0
HERBACEOUS SPECIES			
SYMBOL	BOTANICAL NAME	COMMON NAME	PLANT NO.
(Symbol)	DIODIA SPICATA	SALT GRASS	405
(Symbol)	2' PLUGS, 3.0' ±		ELEVATION 1.25 - 1.50
(Symbol)	PASPALUM DETROITENSIS	SEASHORE KNOT GRASS	2120
(Symbol)	2' PLUGS, 3.0' ±		ELEVATION 2.5 - 3.0
(Symbol)	SETOCHLOA MARITIMA	SEA PURSLANE	1905
(Symbol)	2' PLUGS, 1.5' ±		ELEVATION 1.25 - 2.0
(Symbol)	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	8,000
(Symbol)	2' BARE ROOT, 1.5' ±		SEE PLAN VIEW FOR LOCATION ELEVATION 1.0 - 1.25
(Symbol)	SPARTINA BAKERI	SAND CORDGRASS	701
(Symbol)	1' SA SIZE, 3.0' ±		ELEVATION 3.0
(Symbol)	SPARTINA PATENS	SALT MEADOW CORDGRASS	418
(Symbol)	4' POTS, 5.0' ±		ELEVATION 1.0

TOTAL PLANTINGS:
TREES: 45
HERBACEOUS: 13,440
TOTAL: 13,485

MEAN HIGH WATER (MHW) = +2.0' M.S.L.
MEAN LOW WATER (MLW) = -11.50' M.S.L.

PD	6352 S.F.	TOTAL
SP	1254 L.F.	TOTAL
SM	2856 S.F.	TOTAL
DS	2714 S.F.	TOTAL
SA	23801 S.F.	TOTAL

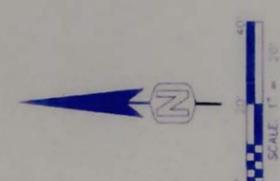
R=25.00'
A=39.27'
C=35.36'
CB=S45°00'00"E

LIMITS OF PROJECT

SLIT FENCE TO BE MAINTAINED FOR DURATION OF CONSTRUCTION (SEE SHEET 4 OF 13 FOR DETAIL)

ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 MEAN SEA LEVEL - 0.00 FEET.

MITIGATION PLAN & DETAILS BY:
Aventar Environmental Consulting
6026 River Road
New Port Richey, FL 34652
(813)846-8882



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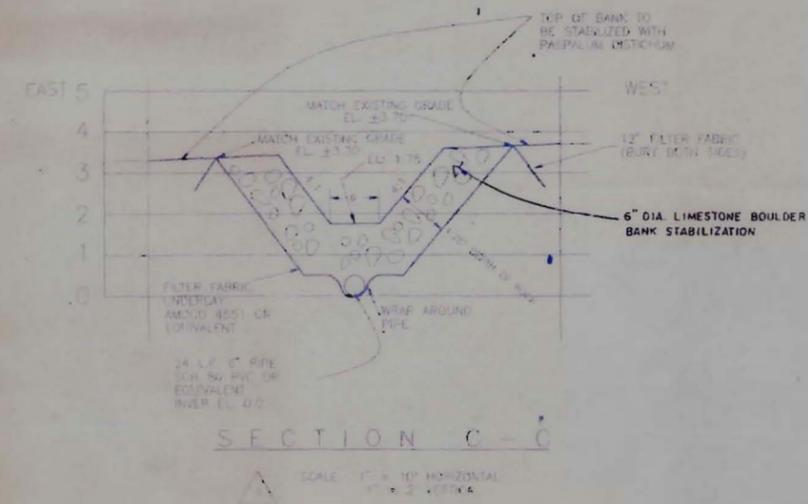
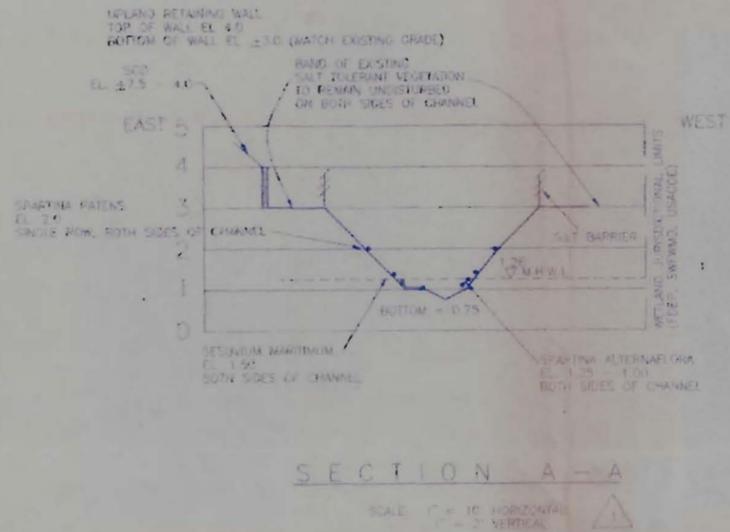
SP#2226.02

C. Fred Deuel and Associates, Inc.
CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS
ST. PETERSBURG • ZEPHYRUS

TARA CAY SOUND - NORTH VILLAGE MITIGATION PLAN
PINELLAS COUNTY FLORIDA

ORDER NO. 94505
DATE: 3/6/95
SCALE: 1" = 20'
SHEET NO. 12 OF 14

AUG 10 1995

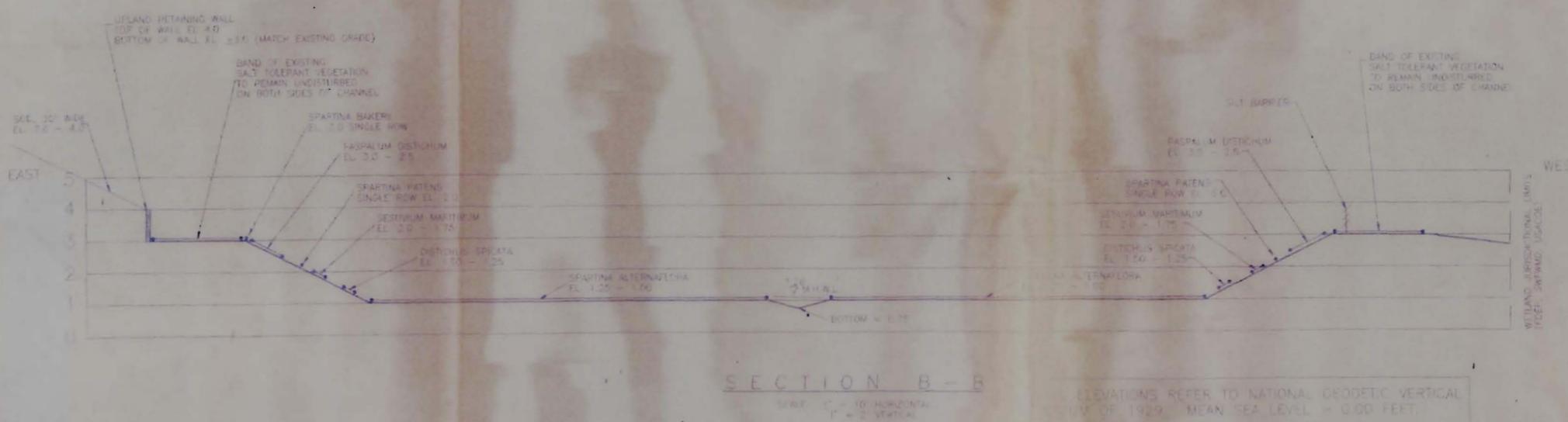


WETLAND AREA CONSTRUCTION NOTES:

- CONTRACTOR TO ESTABLISH CONSTRUCTION METHODOLOGY AND SEQUENCING OF OPERATIONS TO ENSURE COMPLIANCE WITH ALL ENVIRONMENTAL REGULATORY AGENCY PERMITS AND SECTION 403.302, F.A.C. WATER QUALITY STANDARDS.
- CONSTRUCTION OF WATER CONTROL STRUCTURES SHALL BE CONCURRENT WITH OR PRIOR TO CONSTRUCTION OF MITIGATION AREA.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, TURBIDITY BARRIERS MUST BE INSTALLED TO INSURE COMPLIANCE WITH ITEM 1 ABOVE.
- BEFORE EXCAVATION OF THE MITIGATION AREA THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTING AND NUISANCE TREE SPECIES. THESE SPECIES SHALL INCLUDE A MINIMUM OF BUT NOT BE LIMITED TO AUSTRALIAN PINE AND BRAZILIAN PEPPER. TREES TO BE REMOVED SHALL BE IDENTIFIED AND MARKED BY A QUALIFIED ENVIRONMENTAL PROFESSIONAL.
- EXCAVATE MITIGATION AREA AS PER SECTIONS A-A THROUGH C-C ON SHEETS 17 AND 12A OF 12. ALL ELEVATIONS BELOW THE 3.0 CONTOUR AND DOWN TO THE 0.5 CONTOUR SHALL BE EXCAVATED SIX (6) INCHES BELOW THE FINISHED GRADES SHOWN ON THE SECTIONS.
- PLACE SIX (6) INCHES OF CLEAN ORGANIC MATERIAL BELOW THE 3.0 CONTOUR AND DOWN TO THE 0.5 CONTOUR OF MITIGATION AREA.
- AFTER THE EARTHWORK IS COMPLETED, THE ELEVATIONS SHALL BE VERIFIED BY THE PROJECT ENGINEER OR A REGISTERED LAND SURVEYOR. TOLERANCE IS ±0.15 FT.
- ALL AS-BUILT AND STRUCTURING GRADING SHEETS MUST BE COMPLETED, ADJUSTED WHERE NECESSARY AND DEEMED SATISFACTORY PRIOR TO PLANTING THE MITIGATION AREA.
- PLANT AND/OR SOIL MITIGATION AREA AS INDICATED.
- CONTRACTOR SHALL WATER PLANTINGS AS REQUIRED UNTIL ESTABLISHED (AT LEAST MINIMUM DURATION) - A MINIMUM OF THREE WATERINGS PER SEVEN DAY PERIOD ARE REQUIRED WHEN NATURAL RAINFALL EVENTS ARE ABSENT.
- CONTRACTOR SHALL GUARANTEE 100% SURVIVAL RATE FOR 120 DAYS. DEAD OR UNHEALTHY PLANTS SHALL BE REMOVED AND REPLANTED. REPLANTED PLANTS SHALL MEET THE REQUIREMENTS OF ITEMS 9 AND 10.

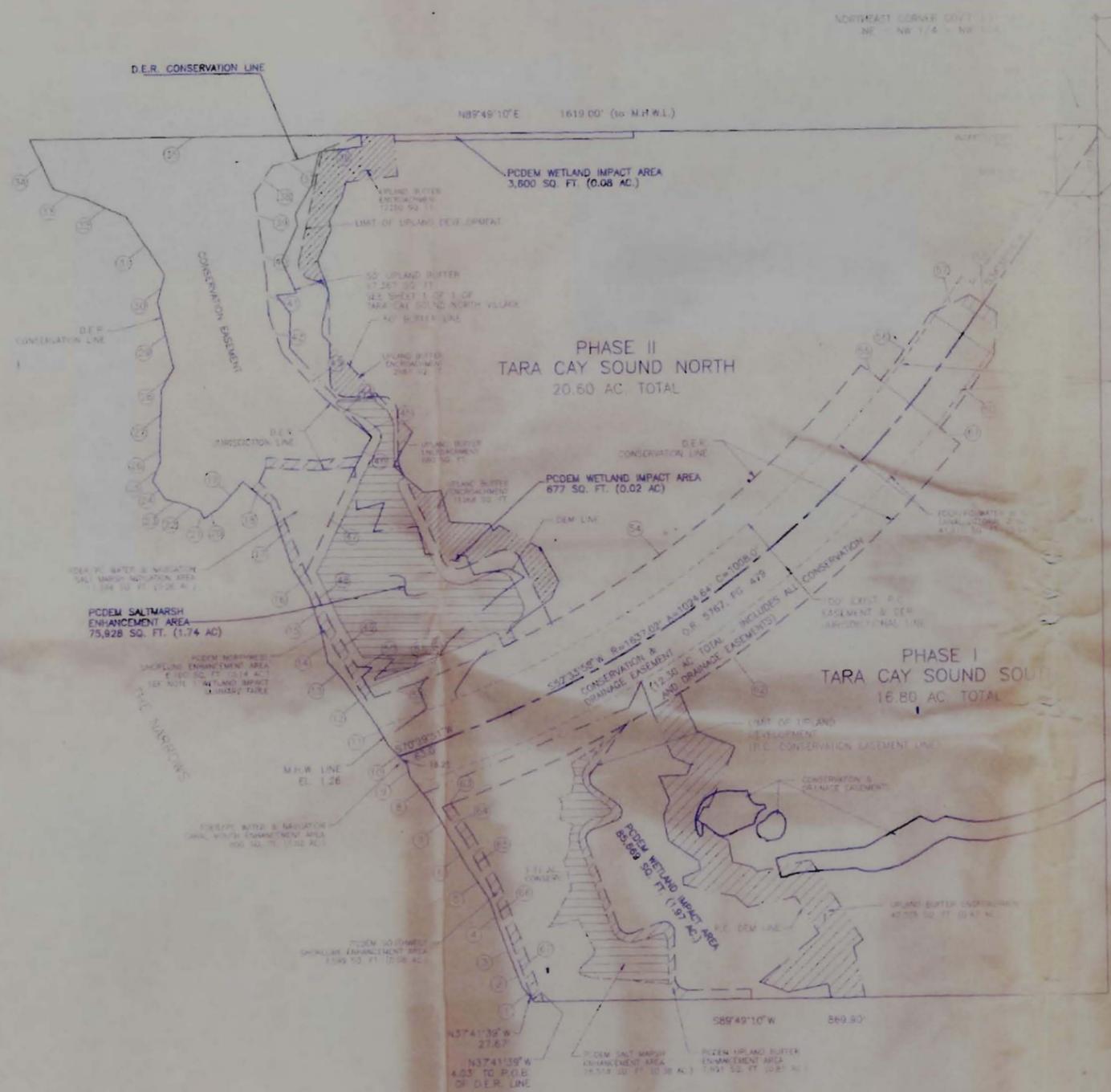
PLANTING LEGEND:

SYMBOL	BOTANICAL NAME	COMMON NAME	PLANT SIZE
(Symbol)	SPARGANNA ERECTA	BOTTENWOOD	45
(Symbol)	SPARGANNA ERECTA 2" GAL. SIZE, 3.0' HIG. 3 PER GROUP; SET PLANT MARK FOR LOCATION, ELEVATION 2.5 - 3.0		
CORPUSCULE SPECIES:			
SYMBOL	BOTANICAL NAME	COMMON NAME	PLANT SIZE
(Symbol)	SPARGANNA ERECTA	SALT GRASS	500
(Symbol)	SPARGANNA ERECTA 2" PLUGS, 3.0' HIG. ELEVATION 1.25 - 1.50		
(Symbol)	SPARGANNA ERECTA	SEASHORE FINE GRASS	2100
(Symbol)	SPARGANNA ERECTA 2" PLUGS, 1.5' HIG. ELEVATION 1.75 - 2.0		
(Symbol)	SPARGANNA ERECTA	SEA PURSUAINE	1905
(Symbol)	SPARGANNA ERECTA 2" PLUGS, 1.5' HIG. ELEVATION 1.75 - 2.0		
(Symbol)	SPARGANNA ALTERNIFLORA 2" BARE ROOT, 1.5' HIG. SEE PLAN FOR LOCATION ELEVATION 1.5 - 1.25	SMOOTH CORPUSCULE	8,000
(Symbol)	SPARGANNA BAKERI 1" GAL. SIZE, 3.0' HIG. ELEVATION 3.0	SAND CORPUSCULE	101
(Symbol)	SPARGANNA PATENS 2" BARE ROOT, 3.0' HIG. ELEVATION 2.0	SALT MEADOW CORPUSCULE	416
(Symbol)	SPARGANNA PATENS 2" BARE ROOT, 3.0' HIG. ELEVATION 2.0		
TOTAL PLANTINGS:			
(Symbol)	TREES		45
(Symbol)	HERBACEOUS		13,449
(Symbol)	TOTAL		13,494



MITIGATION PLAN & DETAILS BY:
 Advantage Environmental Consulting
 6026 River Road
 New Port Richey, FL 34652
 (813)846-8882

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TARA CAY SOUND WETLAND AREA AND IMPACT SUMMARY PCDEM	
TOTAL WETLAND ACREAGE SOUTH SIDE OF CANAL	TOTAL S.F.
PCDEM WETLAND AREA	175,380
FEDER WETLAND AREA	43,083
PROPOSED PCDEM IMPACT AREA	85,889
IMPACTS BY AREA (SOUTH PARCEL)	TOTAL S.F.
WETLANDS	
#1 DITCH FILL	12,000
#2 CANAL	21,500
#3 CANAL MOUTH	1,800
#4 ADD. PCDEM SALT FLAT AREA	80,589
TOTAL WETLAND IMPACT AREA	115,889
IMPACTS #1 - #3 PREVIOUSLY INCLUDED WITH FOOD/PC WATER & NAVIGATION PERMITS.	
UPLANDS	
BUFFER ENCROACHMENT	40,322
TOTAL UPLAND IMPACT AREA	40,322
TOTAL WETLAND ACREAGE NORTH SIDE OF CANAL	TOTAL S.F.
PCDEM WETLAND AREA	102,204
FEDER WETLAND AREA	248,750
PROPOSED PCDEM IMPACT AREA	4,277
IMPACTS BY AREA (NORTH PARCEL)	TOTAL S.F.
WETLANDS	
#1 DITCH FILL	3,808
#2 FOOD/SALT FLAT AREA	427
TOTAL WETLAND IMPACT AREA	4,277
UPLANDS	
BUFFER ENCROACHMENT	34,178
TOTAL UPLAND IMPACT AREA	34,178
CREATED MITIGATION (ALL AREAS)	TOTAL S.F.
#1 CANAL LITTORAL AREA	41,110
#2 CANAL MOUTH	800
#3 STORMWATER TREATMENT AREA W/ LITTORAL ZONE (EAST END OF CANAL)	7,190
#4 FEDER NORTH MITIGATION AREA	11,384
TOTAL CREATED AREA	60,484
WETLAND ENHANCEMENT (ALL AREAS)	TOTAL S.F.
SOUTHWEST TRANSITIONAL SHORELINE	5,599
NORTHWEST TRANSITIONAL SHORELINE	6,120
PCDEM SALT MARSH AREA (SOUTH)	16,514
PCDEM SALT MARSH AREA (NORTH)	15,528
TOTAL ENHANCEMENT AREA	43,761
CONSERVATION EASEMENTS (ALL AREAS)	TOTAL S.F.
ENTIRE SHORELINE AND CANAL (FORWARD TO M.H.R. LINE)	25,094
ADDITIONAL PCDEM AREA SOUTH	87,725
ADDITIONAL PCDEM AREA NORTH	102,266
UPLAND CONSERVATION EASEMENTS	83,634
TOTAL CONSERVATION AREA	398,719
UPLAND BUFFER RESTORATION & ENHANCEMENT	TOTAL S.F.
#1 SOUTH SIDE ELEVATION 5.0 - 3.5	7,291
TOTAL RESTORED AREA	7,291
UPLAND PRESERVATION AREAS	TOTAL S.F.
ADDITIONAL PRESERVATION WITHIN SOUTH PARCEL UPLAND DEVELOPMENT	32,844
NOTES	
1) ALL EXISTING WETLAND VEGETATION WITHIN IMPACT AREAS TO BE TRANSPLANTED TO ENHANCEMENT AREAS AND FOOD MITIGATION AREA.	
2) ALL AREAS = ENTIRE 27.55 ACRE PROJECT SITE (NORTH & SOUTH SIDE, INCLUDING CANAL)	

CONSERVATION EASEMENT NOTE
 THE PURPOSE OF RETAINING THE EASEMENT AREA IS AN ESSENTIALLY NATURAL FUNCTION AND IS SUBJECT TO FLORIDA STATUTE 354.05. THE FOLLOWING ACTS AND ACTIVITIES ARE EXPRESSLY PROHIBITED WITHIN THE AREAS IDENTIFIED AS CONSERVATION EASEMENT IN THE ABSENCE OF A WRITTEN PERMIT FROM THE EASEMENT HOLDER:
 1. CONSTRUCTION OR PLACING OF ANY STRUCTURE OR IMPROVEMENT ON OR ABOVE THE GROUND.
 2. CONSTRUCTION OR PLACING OF UTILITIES, UTILITY FACILITIES, MITIGATION AREA, OR THE PLACING OF MITIGATION.
 3. THE PLACEMENT OF ANY MATERIAL SUCH AS TRUCKS OR WRECK WHICH IS INCONSISTENT WITH THE INTENT OF THE CONSERVATION EASEMENT.
 4. STORAGE, REMOVAL, OR DESTRUCTION OF TREES, SHRUBS OR OTHER VEGETATION, INCLUDING REMOVAL, PESTICIDE AND HERBICIDE USE.
 5. EXCAVATION OR OTHER REMOVAL OF MATERIAL.
 6. USES EXCEPT FOR THE PURPOSES THAT DEFINE THE AREA COVERED BY THE EASEMENT TO REMAIN IN AN ESSENTIALLY NATURAL CONDITION AND ACTIVES DETERMINED TO MAINTAIN FLUID CONTROL, FIRE AND WILDLIFE HABITAT PRESERVATION.
 NOTHING IN THESE RESTRICTIONS SHALL PRECLUDE OR RESTRICT THE MAINTENANCE OF USES PERMITTED BY THE EASEMENT HOLDER.

REV.	DATE	REVISION	BY	CHECKED	DATE
1	7/2/00	REV. CONS. EASEMENT AREAS			

C. Fred Deuel and Associates, Inc.
 CONSULTING ENGINEERS - LAND SURVEYORS AND PLANNERS
 ST. PETERSBURG, FLORIDA

TARA CAY SOUND
 CONSERVATION EASEMENT AND UPLAND BUFFER
 PINELLAS COUNTY, FLORIDA

DATE: AUG 10 1995
 SCALE: 1" = 100'

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