BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Application for Limited Proceeding to Recover Costs of Water System Improvements In Marion County By Sunshine Utilities of Central Florida, Inc.

Docket No. 992015

Filed: July 23, 2002

_____/

DIRECT TESTIMONY

of

HAROLD W. BARRINEAU

on behalf of

SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC.

INTRODUCTION

Q: Please state your name and professional address.

A: Harold W. Barrineau, P.E., 1321 S. E. 25th Loop, Suite 102, Ocala, Florida, 34471.

Q: By whom are you employed and in what capacity?

A: I am the president, owner and principal engineer of my firm, H.W. Barrineau and Associates, Inc. I also serve on the firm's Board of Directors.

Q: Please summarize your training and experience as it relates to this proceeding.

A: I attended the University of Tennessee where I majored in Water Resources and received my Bachelor of Science degree in Civil Engineering. Attached to this testimony as Exhibit ___ (HWB-1) is a resume of my professional experience, which includes work on numerous water and wastewater projects of various sizes.

Q: What is the purpose of your direct testimony?

A: My testimony will describe why water system improvements are needed to address water contamination, water quality and capacity problems existing within portions of the service territory of Sunshine Utilities of Central Florida, Inc. ("Sunshine"), specifically that area served by Sunshine's Lake Weir, Lakeview Hills,

Oklawaha, Belleview Oaks and Hilltop systems. My testimony will also describe the services that my engineering firm, H.W. Barrineau & Associates, and I have provided to Sunshine in developing and designing a cost-effective solution to these problems.

Q: Are there any exhibits to your testimony?

A: Yes. I am sponsoring the following exhibits:

Exhibit ___ (HWB-1)	Resume of Harold W. Barrineau
Exhibit ___ (HWB-2)	Letter from Jones Edmunds & Associates to DEP dated December 3, 2001.
Exhibit ___ (HWB-3)	Letter from Marion County Fire Marshal regarding fire flow.
Exhibit ___ (HWB-4)	Water Facilities Plan dated May, 2001.
Exhibit___ (HWB-5)	Schedule showing used and useful calculation.
Exhibit ___ (HWB-6)	Copies of invoices showing actual engineering costs associated with limited proceeding.

THE NEED FOR WATER SYSTEM IMPROVEMENTS

Q: Please describe the water contamination problems existing within Sunshine's service territory served by the Lake Weir, Lakeview Hills, Oklawaha, Belleview Oaks and Hilltop Systems.

A: There are two significant water contamination problems in the area. The first involves the Lakeview Hills water treatment plant, which consists of a well and a hydroneumatic tank and is located across from a Marion County landfill. The Florida Department of Environmental Protection ("DEP") has discovered the presence of dichloroethylene, a carcinogen, in the well serving the Lakeview Hills system in levels dangerously close to the Maximum Contaminant Level ("MCL"). The contamination problem has been attributed to the Marion County landfill and not to any action or inaction by Sunshine.

The second contamination problem involves contamination of private residential wells located midway between Sunshine's Hilltop system and its Little Lake Weir system. The contaminant found in these wells is ethylene dibromide ("EDB"), a carcinogen considered to be unsafe at any level. EDB is used as a grain fumigant, general solvent, and as a waterproofing preparation. The EDB contamination in this case is believed to be related to chemicals used in orange groves in the area. As with the

dichloroethylene contamination, the EDB contamination has not been attributed to any action or inaction by Sunshine.

Q: Has Marion County provided any assistance in addressing the water contamination problem at the Lakeview Hills well?

A: Yes. Marion County has installed a used filter system at the Lakeview Hills water system.

Q: Please describe the filter system.

A: The filter system is a dual-tower system using dual carbon-activated filters. This system contains a fixed media of activated carbon through which the raw water passes. Through a process known as "adsorption," the dichloroethylene, as well as other substances present in the raw water, concentrate on the surface of the activated carbon. Initially, the upper layers (entry point) of carbon media remove the highest concentrations of contaminants and the lower layers (exit point) screen the amounts that passed through the upper layers. As water continues to flow through the media, the upper layers become saturated and the contaminant moves towards the bottom layers.

Q: Does the filter system ensure that dichloroethylene is not in the public water supply that ultimately reaches Sunshine's customers?

A: No. The movement of the water through the filter towards the lower layers (exit point) of carbon media allows the contaminant to escape. This is known as "breakthrough." The occurrence of this "breakthrough" is influenced by several factors including increased contaminate concentrations, increase in pH of the raw water, increase in flow rate and decrease in the functioning carbon media bed depth (that portion of the filter media that has not become saturated). "Breakthrough" is somewhat linear with time. Unfortunately, there is no practical way to actually monitor carbon media saturation which usually results in a sudden "breakthrough".

Q: What happens when "breakthrough" is detected?

A: The used carbon filter system at Lakeview Hills has two towers. When "breakthrough" occurs on the first tower it is taken off-line for remediation and the second tower is placed on-line.

Q: Has "breakthrough" occurred since the used filter system was first installed at the Lakeview Hills system?

A: Yes. By letter dated December of 2001, Marion County's outside engineers and consultants, Jones Edmunds & Associates, Inc. ("JEA"), notified DEP that results from the October 23, 2001 quarterly sampling showed a "breakthrough" concentration of 3.3 ug/L between filters requiring replacement of the activated carbon in the first filter. The October 23, 2001 sampling also showed a

"breakthrough" concentration of 1.06 ug/L after the second filter. A copy of the letter from JEA to DEP regarding the "breakthrough" is attached to my testimony as Exhibit ___ (HWB-2).

Q: In your opinion, is the used filter system an adequate solution to the contamination problem at the Lakeview Hills well?

A: No. The installation of the used filter was never intended by Sunshine or DEP to be a permanent solution to the contamination problem. Rather, it was considered a temporary solution until such time as water system improvements could be made that would result in the decommissioning of the Lakeview Hills well. The used filter system only has a remaining useful life of approximately seven years. Moreover, as I have previously mentioned, the filter system does not, and cannot, ensure that dichloroethylene will not be present in the public water supply.

One fundamental essential of developing a water source is to begin with the best water quality available. It is usually not practical to begin with contaminated water and hope that you can effectively treat to the minimum standards. Its undoubtedly better to develop new water sources (wells) with the best available water quality. Installing a carbon filter at the Lakeview Hills water system is nothing more than a "band aid" approach to a problem that should be addressed in a more comprehensive manner.

Q: Are there other water quality issues in the area?

A: Yes. In addition to the water contamination problems that I have described, two of Sunshine's wells in the Oklawaha area have high sulfur content that cause odor problems and otherwise diminish the quality of water services that customers receive. In order to address the problems associated with the high sulfur content, Sunshine currently is required to chlorinate its wells which, in turn, accelerates corrosion of its water pipes in the area and also negatively affects the utility's ability to provide quality water service to its customers.

Q: Are there water capacity concerns in the area?

A: Yes. The Marion County Land Development Code requires all new water distribution systems be designed and constructed in accordance with the requirements of the Marion County Fire Codes and the Insurance Services Offices Fire Protection Rating Schedule Needed Fire Flow. In general, the absolute minimum fire flow for residential shall not be less than 500 GPM for a two hour duration. Fire hydrants must also be installed at 2000 feet intervals. Based on these codes, Sunshine's existing systems in the areas to be addressed by the water system improvements do not satisfy Marion County's fire flow requirements. A copy of a letter from the Marion County Fire Marshal regarding these fire flow requirements is attached to my testimony as Exhibit ___ (HWB-3).

THE PROPOSED PROJECT

Q: What actions has Sunshine taken to address the problems that you just described?

A: Sunshine retained my engineering firm to assist it in developing a cost-effective solution to these water contamination, water quality and water capacity problems. The solution that we have developed is part of an overall Water Facilities Plan that we prepared. A copy of the most recent Water Facilities Plan is attached to my testimony as Exhibit ___ (HWB-4). The Water Facilities Plan evaluates the needs of Sunshine's drinking water systems throughout Marion County and prioritizes those needs based upon the following criteria:

- health and safety to the public;
- permitted requirements of DEP;
- level of service;
- water conservation; and
- budgeting and funding.

The Water Facilities Plan finds that Sunshine's first priority should be to consolidate the Lake Weir, Lakeview Hills, Oklawaha, Belleview Oaks and Hilltop systems in order to solve the water contamination, water quality and water capacity issues in those areas.

Q: Please describe the consolidation project that you just referenced.

A: We refer to the consolidation project in the Water Facilities Plan as Phase I. Sunshine currently has 21 separate systems. Phase I will involve the consolidation of five of these systems - - the Lake Weir, Lakeview Hills, Oklawaha, Belleview Oaks and Hilltop systems -- through a network of transmission mains that will form a single system. The existing on-site distribution systems in the relevant areas, will continue to be utilized. A central water system will also be constructed, which will consist of two new wells, treatment facilities, an elevated storage tank, and installation of approximately 12 miles of water mains. Once constructed, the central water system will eliminate the need for the existing contaminated and aging wells in the area. Because Sunshine's wells in the areas will no longer have beneficial use, state policy will require that such wells be abandoned.

Q: What is the total project cost of Phase I of the Facilities Plan?

A: We estimate the total project cost for Phase I to be approximately $2,015,339.00, exclusive of allowance for funds used during construction ("AFUDC") and loan repayment reserve.

PROJECT FUNDING

Q: How does Sunshine plan to fund the project?

A: Sunshine plans to fund the project using a combination of grants and low interest loans from DEP's Drinking Water State Revolving Fund program.

Q: Could you briefly describe the DEP Drinking Water State Revolving Fund program?

A: The Drinking Water State Revolving Fund program is authorized by the Florida Legislature to provide grants and low interest loans to eligible entities for planning, designing and constructing public water facilities. Sunshine has applied to DEP for pre-construction grants and low interest loans as well as construction grants and low interest loans for Phase I of its Water Facilities Plan.

Q: Did you assist Sunshine in applying to DEP for this funding?

A: Yes. My company and I assisted Sunshine in filling out its application for DEP funding under the Drinking Water State Revolving Fund program. We met with DEP on several occasions and had numerous conference calls with DEP staff to explain the application and provide information to DEP to facilitate that agency's processing of the application. We specifically discussed the nature of Sunshine's problems and our involvement in helping

Sunshine to develop a long-term solution to those problems through the decommissioning and consolidation of the five stated water systems into a single regional water system.

Q: What is the status of Sunshine's application for funding under this program?

A: DEP has found that Sunshine's proposed water system improvements to be made through Phase I of the Water Facilities Plan satisfied DEP's criteria for funding. DEP has indicated that Sunshine is eligible for a total of $682,570.00 in grant money for the project. Of this amount, DEP has already awarded Sunshine a $153,000.00 pre-construction grant. DEP has also indicated that Sunshine is eligible for total loan dollars in the amount of $1,475,314.00 of which DEP has already provided Sunshine with $32,500.00 as a pre-construction loan.

Q: You mentioned that Sunshine has already received pre-construction grants and loans for its water system improvements project. Are there conditions for Sunshine obtaining the low interest loans and grants from DEP for the construction phase of the water system improvements project?

A: Yes. DEP's accounting staff has determined that a rate increase is necessary for Sunshine to service the revolving loan debt. Thus, any construction grant or low interest construction loan for which

Sunshine is eligible is contingent upon Sunshine providing DEP with a final order of the Florida Public Service Commission (the "Commission") approving an increase in Sunshine's rates. Sunshine's had no choice but to seek a rate increase in this proceeding if it was going to take advantage of the grant dollars and low interest loans available from DEP for the project.

Q: Has the Commission issued a final order approving the rate increase necessary for Sunshine to obtain the funding from DEP?

A: It is my understanding that the Commission issued a proposed agency action order ("PAA Order") on May 14, 2002, that would have granted Sunshine the rate increase necessary to obtain DEP funding, but that the PAA Order has not become final.

Q: Why hasn't the PAA Order become final?

A: The Office of Public Counsel ("OPC") has protested the portion of the PAA Order granting Sunshine a rate increase. Because of the OPC's legal challenge, there is no final decision by the Commission authorizing the required rate increase. As a consequence of OPC's challenge, Sunshine has not satisfied a necessary condition precedent to receiving DEP funding during the current funding cycle.

Q: Didn't Sunshine also file a protest to the Commission's PAA Order?

A: Sunshine filed a limited protest to certain specific portions of the PAA Order, but Sunshine's filing did not disturb that fundamental part of the order that would have granted the rate relief necessary for DEP funding. Portions of the PAA Order that Sunshine protested only pertain to a proposed reduction in the salary of Sunshine's president and a proposed reduction in Sunshine's rate case expense.

Q: Will Sunshine continue to seek funding from DEP?

A: Yes. DEP's Drinking Water State Revolving Fund program is still in existence and Sunshine will continue to seek funding for its project. Of course, Sunshine will not be eligible for any additional funding from DEP's Drinking Water State Revolving Fund absent a final Commission order granting a sufficient rate increase so that Sunshine can demonstrate to DEP that it can adequately service the revolving loan debt.

THE LIMITED PROCEEDING

Q: Did you and your company assist Sunshine in its efforts to obtain a rate increase necessary to secure the low interest loans and grants from DEP?

A: Yes. When it became apparent to Sunshine that a rate increase would be necessary to obtain DEP funding for the water system improvements, we were asked to assist with the limited proceeding before the Commission.

Q: What did your work in connection with the limited proceeding entail?

A: Our work in connection with the limited proceeding involved: supplying supporting documentation, including an updated Water Facilities Plan to include all Marion County systems; preparation of system maps with Commission delineated boundaries; application of Commission staff's used and useful calculation formula to the project; attendance at a customer service hearing; attendance at numerous meetings with Commission staff and DEP staff; attendance at two Commission Agenda conferences; attendance at meetings and telephone conferences with Marion County staff; research regarding possible additional funding for the project from developers; and numerous meetings and telephone conferences with Sunshine's accountants and lawyers.

Q: Please describe the meetings with Commission staff.

A: Sunshine filed its initial application for limited proceeding on December 21, 1999. When it became apparent that Commission staff was going to recommend denial of the requested rate relief, Sunshine requested a meeting with Commission staff. This first

meeting with Commission staff was held on April 17, 2000. At that meeting, we explained the reason for the project and why a rate increase was necessary in order to obtain low interest loans and grants from DEP. The primary concern expressed by staff at this meeting was that the project appeared to only benefit customers in the five affected systems and provided no benefits to customers in Sunshine's other sixteen systems.

Q: How did Sunshine respond to this concern?

A: In an attempt to address staff's concern, and at staff's suggestion, Sunshine submitted an amended application for limited proceeding (the "First Amended Application") to the Commission on September 8, 2000 which presented two alternatives. Under the first alternative, Sunshine revised its original proposal to request a rate increase of approximately 22.19% to be shared by all of Sunshine's customers. Under the second alternative, Sunshine proposed a project of a more limited scope that would only address the contamination problems in Little Lake Weir and Lakeview Hills systems as well as the sulfur concerns in the Oklawaha area. Within alternative number 2, Sunshine proposed two alternative rate plans. First, a rate increase of 18.2% could be passed on to all of Sunshine's customers. Second, a rate increase of approximately 88.45% could be passed on only to the 750 customers of the four systems involved.

Q: Did the First Amended Application resolve staff's concern with the rate relief requested for the project?

A: No. Staff continued to suggest that it would recommend denial of any rate increase associated with the project. Accordingly, Sunshine requested additional meetings with staff to continue to attempt to address staff's questions and concerns relating to the project so that Sunshine could take advantage of the very favorable DEP funding for the project. Two meetings were held with staff after the filing of the First Amended Application, the first occurring on January 29, 2001, and the second occurring on April 18, 2001.

Q: What transpired at the January 29, 2001 meeting?

A: At that meeting, we discussed the need to abandon the existing well at the Hilltop Water System as opposed to keeping it for a primary well or a backup well, and the need for the project to comply with Marion County fire flow requirements. In addition, staff suggested that Sunshine apply a used and useful analysis to the project.

Q: What transpired at the April 18, 2001 meeting?

A: We provided staff with the used and useful analysis using staff's used and useful calculation formula. Sunshine also provided staff with revised accounting schedules. Staff's primary concern expressed at the April 18, 2001 meeting appeared to be the

recovery of increased rates by Sunshine before expenses are incurred while the project is being constructed. Staff suggested we look into breaking the regional water system project into separate construction phases. Staff specifically suggested that Sunshine file a second amended application for limited proceeding instead of initiating a new proceeding. Staff also indicated for the first time that it would need to conduct an audit and hold a customer meeting.

Q: Did Sunshine again amend its application for limited proceeding following these meetings with Commission staff in the early part of 2001?

A: Yes. After again revising the project to address staff's concerns, Sunshine filed a second amended application for limited proceeding (the "Second Amended Application"), this time including a used and useful analysis based on application of staff's formula. The second amended application included a proposed rate increase of 15.73% to be shared by all of Sunshine's customers, which is significantly less than Sunshine requested in its initial filing. The Second Amended Application also included a revised Water Facilities Plan which addressed all 21 of Sunshine's systems and provides for construction in phases.

Q: In earlier staff recommendations in the docket, Commission staff has indicated that Sunshine's project appears to be

designed to meet future development demands at the expense of existing customers. Do you agree with this perception?

A: No. During my involvement with the water system improvements project there has never been any suggestion that water distribution lines needed to be placed in a certain area to be able to serve new or potential customers. While it's true that the regional water system, as designed, can very well serve future demands, the system was designed to solve existing problems with the stated five water systems. Because of the remote location of the five systems, the proposed water lines required to interconnect the five systems front property that is currently undeveloped. Sunshine is only requesting an increase in rates and charges to recover the project costs associated with that portion of Phase I that will be used and useful upon completion of construction.

Q: Has the utility performed a used and useful calculation to determine what percentage of the water plant and water distribution systems will be used and useful upon completion of construction of Phase I?

A: Yes. As I have previously mentioned, with its Second Amended Application for limited proceeding, Sunshine employed Commission staff's used and useful calculation formula. Application of this formula resulted in a determination that 75.96% of the water plant and 51.88% of the water distribution

system will be used and useful upon completion of construction. Schedules showing these used and useful calculations are attached to my testimony as Exhibit ___ (HWB-5).

Q: Has Sunshine attempted to obtain financial support for the project from developers of future projects within the utility's service area?

A: Yes. We prepared and placed an advertisement in the Marion County Builders Association monthly newsletter. We also called several developers and local real estate agents to advise them of the proposed regional water system. We did not receive any response to these efforts.

Q: Has Sunshine attempted to obtain financial support for the project from Marion County?

A: Yes. At the Commission's November 6, 2001 Agenda Conference, the Commission rejected staff's recommendation to deny the project and requested rate relief and ordered staff and the utility to meet with Marion County to see if Marion County would provide funding to support Phase I of the project.

In response to that request by the Commission, we assisted Sunshine in interfacing with Marion County. We initially met with the Marion County Assistant Administrator, Janet Tutt. We subsequently met with the Marion County Solid Waste Department because of their direct involvement with the Lakeview

Hills water system filtration unit and their responsibility for the adjacent landfill. We arranged for representatives of the Marion County Solid Waste Department to meet with not only Sunshine, but also Commission staff and a representative of the Office of Public Counsel. At that meeting we learned of Marion County's desire for Sunshine to expand its project to include new customers that are currently being provided bottled water because of contamination of their private wells. The Marion County Solid Waste Department identified approximately 38 homes that they wanted connected to the new system. After additional discussions with Marion County staff and DEP staff, the Marion County Assistant Administrator and Solid Waste Director agreed to seek approval from the Board of County Commissioners for allocation of funds to those portions of the project that are necessary for adding these additional customers. Marion County staff also agreed to seek grant funds, if available. At the present time this effort is on hold due to the protests of the PAA order.

Q: Would the expansion of the project to include the approximately 38 homes on private wells affect the used and useful analysis for the project?

A: Yes. Commission staff expanded the utility's used and useful analysis to include the approximately 38 homes that Marion County wants Sunshine to serve. If these homes are added to Sunshine's system, Commission staff has determined that 80.3% of

the proposed water treatment plant and 54.5% of the water distribution system would be used and useful.

RATE CASE EXPENSE

Q: Please describe the services that you and your company rendered to Sunshine in connection with this limited proceeding that resulted in engineering costs.

A: As I have previously mentioned, our work in connection with the limited proceeding involved: supplying supporting documentation, including an updated Water Facilities Plan to include all Marion County systems; preparation of system maps with Commission delineated boundaries; application of Commission staff's used and useful calculation formula to the project; attendance at a customer service hearings; attendance at numerous meetings with Commission and DEP staff; attendance at two Commission Agenda conferences; attendance at meetings and telephone conferences with Marion County staff; research regarding possible additional funding for the project from developers; and numerous meetings and telephone conferences with Sunshine's accountants and lawyers. Copies of invoices showing the actual engineering rate case expense incurred to date are attached to my testimony as Exhibit ___ (HWB-6). These invoices total $50,564.67.

Q: Are these actual engineering fees based on an assumption that this proceeding would be resolved without formal administrative proceedings?

A: Yes.

Q: Because the case was not settled at the proposed agency action level and will now go to formal administrative proceeding, can you furnish an estimate of your company's total engineering fees through the hearing and conclusion of the case?

A: In my opinion, the time required for recapitulation, the preparation of this testimony, responding to discovery, reviewing other testimony and preparation for and attendance at the hearing would likely result in an additional $4,500 in engineering fees bringing the total engineering fees related to this rate case to approximately $55,000.

Q: Does this conclude your direct testimony?

A: Yes.

Hal W. Barrineau, P.E., President
H.W. Barrineau and Associates, Inc.

PROFESSIONAL REGISTRATION

Professional Engineer, FL No. 49447
Professional Engineer, TN No. 100745
Professional Engineer, OH No. E-60714
Professional Engineer, AZ No. 32414
Registered SBCCI Building Inspector No. 3280
Professional Engineer, IN No. 19600516
Professional Engineer, KY No. 19454
Professional Engineer, NC No. 22204
Professional Engineer, SC No. 18972
AWS Certified Welding Inspector

AREAS OF EXPERTISE

CIVIL ENGINEERING
- Water Distribution
- Wastewater Collection
- Stormwater Management
- Facility Assessments

STRUCTURAL ENGINEERING
- Welding Qualification & Observations
- Shallow & Deep Foundation Observations
- Wind Load Calculations SSTD 10-97
- Design Analysis SBCCI SBC

BUILDING SERVICES
- Design Evaluations
- Compliance Reviews
- Field Engineering

LENDER SERVICES
- Independent Development Review
- Pay Estimate Review

LEGAL SERVICES
- Expert Witness

CONSTRUCTION PHASE SERVICES
- Contract Administration
- Project Representation
- Field Engineering

ENVIRONMENTAL ENGINEERING
- Water & Wastewater Treatment
- Subsurface Disposal Systems
- Solid Waste Management
- Environmental Site Assessments

PLANNING
- EDA Grants
- State Revolving Fund Loan Program
- CDBG Grants
- FmHA Small Communities Grants/Loans

PROFESSIONAL SYNOPSIS

Hal Barrineau has over 25 years of Civil Engineering and Environmental Engineering experience, including, but not limited to planning, design, permitting and construction of widely varied projects. His background includes the technical capabilities required to design and permit civil and environmental systems. These include solid waste management, infrastructure improvements for water treatment water distribution, wastewater treatment, wastewater collection, reclaimed water reuse, and stormwater management. His background and expertise also includes providing building and construction phase services at medical facilities, high rise office buildings, entertainment complexes, transportation facilities, housing developments, shopping centers and a variety of commercial and industrial facilities throughout the southeast.

PROFESSIONAL ASSOCIATIONS (Past and Present)

National Society of Professional Engineers
Water Environment Federation (WPCF)
Southern Building Code Congress International
American Public Works Association
American Society of Civil Engineers
Florida Environmental Assessors Association
Construction Specifications Institute
Florida Rural Water Association

PERSONAL ASSOCIATIONS (Past and Present)

Ocala/Marion County Chamber of Commerce
Greater Ocala Kiwanis Club Past President
Leadership Ocala/Marion Board of Regents Chair
1998 Southeast US Leadership Conference Chair

RELATIVE EXPERIENCE:

Environmental Engineering:

Mr. Barrineau's Environmental Engineering experience includes the design and construction administration of a wide range of system improvements projects. These include water resource identifications, water treatment facilities, wastewater treatment facilities, subsurface disposal systems and combined sewer system separations. He has provided

planning, design, and construction quality assurance services for municipal and industrial solid waste facilities. Municipal services include rate studies and development of fee structures for water, wastewater and solid waste disposal.

Construction Phase Services:
Mr. Barrineau has provided construction phase services on a variety of Civil, Structural, and Environmental projects. These projects include infrastructure improvements, site improvements, building additions, and commercial and industrial developments. Services for contract administration, field engineering, compliance evaluation and representation during construction was routinely provided.

Lender Services:
Services provided by Mr. Barrineau include independent development reviews, review of periodic estimates and requests for payment.

Legal Services:
Mr. Barrineau has provided testimony as an expert witness on construction issues for small and large projects alike. This expertise comes from a background in design and construction. Services include insurance claims analysis to ascertain reasonable replacement values of lost or damaged property.

Structural Engineering:
Mr. Barrineau's expertise in construction materials includes field analysis of the erection of structural steel members, fasteners, and analysis of welds. He maintains certifications as a welding inspector and nondestructive metals examiner.
His geotechnical background includes engineering assistance with shallow and deep foundation design for a wide variety of structures.

Civil Engineering:
Mr. Barrineau has developed, designed, and administered construction contracts for a wide range of civil engineering projects. These include water distribution systems, wastewater collection systems, gas distribution systems, stormwater management plans and facility assessments.

Planning:
Mr. Barrineau has been responsible for the preparation of federal and state grant and loan applications for funding a variety of infrastructure improvements. The funding sources include the Economic Development Administration (EDA), the State Revolving Fund Loan Program (SRF), the Rural Development Administration, formerly Farmers Home Administration (FmHA), the Community Development Block Grant Program (CDBG) and other regional grant programs such as the Appalachian Region Commission Distressed Counties Program.

RELATIVE PROJECTS:

Environmental Engineering:
White Pine, Tennessee: 0.5 MGD Water Treatment Plant Design
Lenoir City, Tennessee: Developed Emergency Operations Procedures Manual for Water System
Southland Broilers Poultry Processing Facility, Enterprise, Alabama: Wastewater treatment analysis and process design changes.
Dyersburg Tennessee: 10.0 MGD Wastewater Treatment Plant Equipment Specifications
Tellico Reservoir Development Agency, Vonore, Tennessee: 0.75 MGD Wastewater Treatment Plant Design
BASF Fibers Division, Lowland, Tennessee: Lift stations, surge basin and clarifier design for pretreatment system.
EG&G Ortec Instruments, Oak Ridge, Tennessee, Sampling and monitoring station design for germanium crystal laboratory.
BASF Fibers Division, Lowland, Tennessee: Waste stream characterization, Development of Landfill Operations Manual, Closure and Post Closure Care Plans and RCRA Subtitle D Landfill design for 400 Ton per day Industrial Solid Waste Facility
Morristown-Hamlen County Solid Waste Facility, Morristown, Tennessee: Development of Landfill Operations Manual, Closure and Post Closure Care Plans and RCRA Subtitle D Landfill design for 200 Ton per day Municipal Solid Waste Facility
Madisonville Wastewater Treatment Facility, Madisonville, Tennessee: 0.8 MGD Treatment Plant analysis and process design changes
Martin Marietta Y-12 Facility, Oak Ridge, Tennessee: Demolition landfill design
Matsushita Corporation, Knoxville, Tennessee; Sampling and monitoring station design for electronics facility
Bridle Spur Farms, Reddick, Florida: Phase I Environmental Assessment

KFC, Ocala, Florida: Phase I Environmental Assessment
U.S. Highway 27, Marion County, Florida: Phase I Environmental Assessment
State Highway 40, Marion County, Florida: Phase I Environmental Assessment
Pilot Travel Centers Nationwide: Wastewater facility assessments and design of modifications
Marion-Citrus Mental Health Centers, Ocala, FL: Design and permitting of 0.025 MGD wastewater facility
Southern Poultry, Marion County, Florida: Evaluation, design and permitting for wastewater facility
Timber Ridge Nursing Home, Marion County, FL: Design of wastewater facility expansion
Weichens Realty, Marion County, Florida: Numerous Phase I Environmental Site Assessment
Valencia Place Apartments, Tampa, Florida: Phase I Environmental Site Assessment
SunTrust Bank, Marion County, Florida: Numerous Phase I Environmental Site Assessments

Construction Phase Services:
Red Ridge Landfill Imminent Threat Waterline Extension, Monroe County, TN: 39700 L.F. of water mains and booster stations.
Caryville Jacksboro Wastewater Collection System Improvements, Jacksboro, TN: 90000 L.F. of sewer lines and 13 lift stations.
3.5 MG Tank Rehabilitation, Lenoir City, Tennessee: Rehabilitation of steel tank including paint preparations and painting.
4th Creek Wastewater Treatment Facility, Knoxville, Tennessee: 4 MGD Wastewater Treatment Plant Expansion.
Kimberly Clark, Loudon County, TN: Site, roadway, rail & infrastructure construction including (2) 1.0 MG Water Reservoirs.
Niles Ferry Industrial Park, Vonore, Tennessee: Site, roadway, rail and utility infrastructure construction.
Sarasota Bradenton Airport, Sarasota, Florida: Taxiway and terminal construction.
MacDill Airforce Base, Tampa, Florida: Runway construction.
Standiford Field, Louisville, Kentucky: Hanger construction.
McGhee Tyson Airport, Knoxville, Tennessee: Runway, terminal and Squadron Operations Command Center construction.
Newport Housing Authority, Newport, TN: Comprehensive Assessment Improvements Plan.
Sevierville Housing Authority, Sevierville, TN: Comprehensive Assessment Improvements Plan.
Jacksboro Housing Authority, Jacksboro, TN: Comprehensive Assessment Improvements Plan.
Sweetwater Housing Authority, Sweetwater, TN: Comprehensive Assessment Improvements Plan.
Jackson Housing Authority, Jackson, TN: Comprehensive Assessment Improvements Program.
LaFollette Housing Authority, LaFollette, N: Comprehensive Assessment Improvements Plan.
Morristown Housing Authority, Morristown, TN: Comprehensive Assessment Improvements Program.

Lender Services:
IT Corporation, Knoxville, Tennessee: Development and pay estimate review (1st American National Bank)
Tree Tops Resort, Gatlinburg, Tennessee: Development and pay estimate review (Greyhound Real Estate)
GSA Recruiting Center, Knoxville, TN: Development and pay estimate review (1st Union National Bank of TN)
IT Corporation S. E. Complex, Knoxville, TN: Pay estimate review(1st National Bank of Louisville, KY)
Wal-Mart- Tellico Village, Lenoir City, TN: Pay estimate review (JDN Enterprises)
CCA/East TN Regional Juvenile Facility, Dandridge, TN: Pay estimate review (Citizens Fidelity Bank and Trust Company)
Danny Schultz Chevrolet, Lenoir City, TN: Development and pay estimate review (Marine Midland Bank)
Western Plaza Shopping Center, Knoxville, TN: Pay estimate review (The Trion Group)
Family Inns, Knoxville, TN: Pay estimate review (Charter Federal Savings and Loan)
Ocala Breeder Sales, Ocala, Florida: Pay estimate review (Sun Trust Bank of North Central Florida)
YMCA, Ocala, Florida: Pay estimate review(Sun Trust Bank of North Central Florida)
Rivendell Development, Ocala, Florida: Pay estimate review (Friendship Bank)
American Legion Post 254, Marion County, Florida: Pay estimate review (Huntington Bank)
Central Florida Heart Institute, Marion County, Florida: Pay estimate review(Sun Trust Bank of North Central Florida)
Ocala Palms, Marion County, Florida: Pay estimate review (Sun Trust Bank)
Marion Medical Park, Marion County, Florida: Pay estimate review (Sun Trust Bank)
Cala Hills, Marion County, Florida: Pay estimate review (Sun Trust Bank)
Landfair, Marion County, Florida: Pay estimate review (Greater Miami Neighborhood)

Legal Services:
TRW KOYO Steering Systems, Vonore, Tennessee: Expert witness for TRW quality issues
Parks Residence, Cleveland, Tennessee: Expert Witness for contractor workmanship issues
Second United Methodist Church, Knoxville, Tennessee: Insurance claim analysis/adjustments
Bill Meyer Stadium, Knoxville, Tennessee: Facility analysis for Toronto Blue Jays
Walden Woods Wastewater Treatment Plant, Homossasa, Florida: Expert Witness for contractor workmanship issues.

Structural Engineering:
Lake of the Ozarks Shopping Center, Osage Beach, Missouri: Elevated floor slab load tests

Humana World Headquarters, Louisville, Kentucky: Weld Inspection, Welder qualifications, and Nondestructive Examinations for 30 story high-rise office building
Opryland Hotel, Nashville, Tennessee: Weld Inspection, Welder qualifications, and NDE for Conservatory
1982 World's Fair, Knoxville, Tennessee: Weld Inspection, Welder qualifications, and Nondestructive Examinations for Giant Ferris Wheel, Ski Lift, Tennessee Amphitheater
Pasco County Courthouses, Dade City & New Port Richey, Florida: Weld Inspection, Welder qualifications, and Nondestructive Examinations for two courthouses
Humana Hospital Abilene, Abilene, Texas: Structural steel analysis of tornado damage
A.E. Staley 4th Corn Plant, Loudon, Tennessee; Deep foundation analysis
504 S. E. 8th Street, Ocala, Florida: Evaluation and modifications of structural system for residential occupancy
201 S. E. 8th Street, Ocala, Florida: Evaluation and modifications of structural system for commercial occupancy
16 West Broadway, Ocala, Florida: Evaluation and modifications of structural system for commercial occupancy
Ft. King & Broadway, Ocala, Florida: Evaluation and modifications of structural system for commercial occupancy
Hahn Residence, Ocala, Florida: Evaluation of foundation system
Dunse Residence, Ocala, FL: Evaluation and modifications of foundation and structural system
Alexander Residence, Ponte Vedra Beach, FL: Evaluation of foundation system
Armstrong Homes, Marion County, Florida: All Design and Compliance Review for SBC and SSTD 10-97 codes
Lines of Ocala Inc., Marion County, Florida: All Design and Compliance Review for SBC and SSTD 10-97 codes
TAM Construction, Inc., Marion County, Florida: All Design and Compliance Review for SBC and SSTD 10-97 codes
Underwood Construction, Inc., Marion County, Florida: All Design and Compliance Review for SBC and SSTD 10-97 codes
Fabian Construction, Inc., Marion County, Florida: All Design and Compliance Review for SBC and SSTD 10-97 codes

Civil Engineering:
Caryville Jacksboro Utilities Commission, Jacksboro, Tennessee: Design of 13 miles of distribution piping with storage and pumping appurtenances
Wastewater System, Sevierville, Tennessee: Redesign of 9 miles of sewers and appurtenances
Quaker Oats, Newport, Tennessee: Development of Stormwater Management Plan, EPA NPDES Permit, Annual Sampling and Monitoring for NPDES Compliance
BASF Fibers Division, Lowland, Tennessee: Stormwater Management Plan
Sweetwater Landfill, Sweetwater, Tennessee: Stormwater Management Plan
Morristown Hamlen County Baling Facility, Morristown, Tennessee; Stormwater Management Plan
Vonore Gas System, Vonore, Tennessee: Feasibility Study for Natural Gas Distribution System
Town of Madisonville, Tennessee: Assessment and design of Stormwater conveyance structures
City of Sweetwater, Tennessee: Assessment and design of Stormwater conveyance structures
Indian Pines V Subdivision, Ocala, Florida: Design of water distribution system
Forest Green Subdivision, Marion County, Florida: Design of water and sewer systems
Carriage Crossings Phase II, Brooksville, Florida: Site Engineering and design for development
Walden Woods of Sugarmill Woods Phase III, Citrus County, Florida: Site Engineering and design for subdivision
The Estates, Citrus County, Florida: Site Engineering and design for subdivision
New Hope Villas of Seville, Volusia County, Florida: Complete site design services for 60 apartment unit complex
H & B Landfill, Marion County, Florida: Stormwater Management design and permitting
Good Shepherd Presbyterian School, Marion County, Florida: Complete site design services
Pilot Travel Center No. 211, Lake Havasu, Arizona: Design of water supply, fire protection and wastewater treatment and disposal systems
Sunshine Utilities Regional Water System, Marion County, Florida: Design of 0.500 MG elevated tank and 13 miles of distribution system.

Planning:
Madisonville, Tennessee: 1993 CDBG Application for Sanitary Sewer Extensions
Vonore, Tennessee: 1993 CDBG Application for Sanitary Sewer Extensions
Madisonville, Tennessee: 1992 ARC Application for Water System Rehabilitation
Monroe County, Tennessee: 1992 CDBG Application for Waterline Extensions
Vonore, Tennessee: 1992 CDBG Application for Sanitary Sewer Extensions
Tellico Reservoir Development Agency: 1991 ARC, FmHA, & TIIP Applications for WWTP
Caryville Jacksboro Utilities Commission: 1990 FmHA Application for Water System
McIntosh, Florida: 1995 CDBG Application for Neighborhood Revitalization
Marion County, Florida: 1996 CDBG Application for Economic Development
Sunshine Utilities Regional Water System, Marion County, Florida: State Revolving Loan Fund

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

December 3, 2001

Ms. Marie Carrasquillo
Florida Department of Environmental Protection - Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RE: Marion County
Lakeview Hills Subdivision
PWS ID Number 3424687

Dear Ms. Carrasquillo:

Enclosed please find the laboratory analytical results for the October 23, 2001 sampling of the above referenced well reported on the required Department forms.

As previously discussed two samples were collected during this sampling event; one after each filter. Since a breakthrough concentration of 3.3 µg/L was reported for the sample collected between the filters, replacement of the activated carbon in the first filter has been initiated. We will notify the Department when the replacement is complete.

Should you have any questions or comments, please do not hesitate to call me at (352) 377-5821.

Sincerely,

John Locklear
Project Geologist

M:\EnvDocs\Marion\DAVIS\DPW-49\01M10\01M10_let oc

Enclosure

xc: Allen Ellison, Marion County
Pamela Christmas, Sunshine Utilities

LAB FORMAT FOR REPORTING DRINKING WATER ANALYSES

PUBLIC WATER SYSTEM INFORMATION (to be completed by system or lab)

System Name: Lakeview Hills ID #: 3424687

Address: 10230 Highway 25 Bellview Fl Phone #: 352-347-8228

Type (check one) (x) Community ( ) Nontransient Noncommunity ( ) Noncommunity

SAMPLE INFORMATION (to be completed by sampler)

Sample Date (MMDDYY): 10/23/01 Sample Time: 09:55 AM

Sample Location (be specific): DPW-49B (AFTER 2ND FILTER)

Sampler Name and Phone: Ed Swaney 352-377-5821

Sampler's Signature: _____ Title: _____

Check Types(s) ( ) Distribution ( ) Recheck of MCL ( ) Resample of Lab Invalidated Sample
( ) Clearance ( ) Thm Max Res Time ( ) Plant Tap
( ) Distrib entry pt ( ) Raw ( ) Composite of Multiple Sites--Attach a format for each site

LABORATORY CERTIFICATION INFORMATION (to be completed by lab) – attach HRS Analyte Sheet *

Lab Name: TESTAMERICA, INC. HRS#: E83012 Expiration Date: 06/30/02

Address: 4310 E. Anderson Rd., Orlando, FL 32812 Phone: 851-2560

Subcontracted Lab HRS#: _____ –ATTACH HRS ANALYTE SHEET FOR SUBCONTRACTED LAB, TOO *

ANALYSIS INFORMATION: (to be completed by lab) Work Order Number: 01-F27156

Date Sample(s) Received: 10/26/01 Group(s) Analyzed & Results attached for compliance with 62-550, F.A.C..

( ) Nitrate Only ( ) Nitrite Only ( ) Asbestos Only ( ) Trihalomethanes

Inorganics–	Volatile Organics–	Secondaries–	Pesticide/PCBs–
(x) All 17 ( ) Partial	( ) All 21 (x) Partial	( ) All ( ) Partial	( ) All 30 ( ) Partial

Group I Unregulateds–	Group II Unregulateds–	Group III Unregulateds–	Radiochemicals–
( ) All 13 ( ) Partial	( ) All 23 ( ) Partial	( ) All ( ) Partial	( ) Single Sample
			( ) Qtrly Composite **

**Provide radiochemical sample dates & locations for each quarter

I, MARK RUSLER, do HEREBY CERTIFY that all attached analytical data are correct

Signature: _____

Title: CHEMIST Date: 11/07/01

COMPLIANCE INFORMATION (to be completed by State)

Sample Collection Satisfactory: _____ Sample Analysis Satisfactory: _____

Resample Requested For: _____ Reason: _____

Person notified to resample: _____ Date Notified: _____

DEP/HRS Reviewing Official: _____

*All HRS lab #s and their HRS Analyte Sheet for labs performing the attached water analyses must be provided. Failure to do so will result in rejection of the analyses and possible enforcement against the public water system for failure to sample.

TRIHALOMETHANE ANALYSIS

62-550-310(a)

(PWS027)

ID	Name	Sample Number	CL Resid	Analysis Result(mg/	Analysis Method	Analysis Date	MDL(mg/L	Lab ID
2950	Total THMs				524.2		.00036	E83012

RADIOCHEMICAL ANALYSIS*

62-550.310(5)

(PWS033)

ID	Name	Sample Number	Analysis Result(pCi/	Analysis Method	Analysis Date	Error	Lab ID
4000	Gross Alpha						E83033
4012	Photon Emitters						
4020	Radium-226						
4030	Radium-228						
4101	Man-made beta						

*(Gross alpha generally only requirement, see 62-550.519.(FAC)

VOLATILE ORGANIC ANALYSIS

62-550.310(2)(b)

(PWS028)

ID	Name	(MCL ug/L)	Sample Number	Analysis Result(µg/L	Analysis Method	Analysis Date	MDL(µg/L	Lab ID
2378	1,2,4-Trichlorobenze	(70)			524.2		0.22	E83012
2380	Cis-1,2-dichlorethyle	(70)			524.2		0.03,	E83012
2955	Xylenes (total)	(10000)			524.2		0.24	E83012
2964	Dichloromethane	(5)			524.2		0.31	E83012
2968	O-dichlorobenzene	(600)			524.2		0.05	E83012
2969	Para-dichlorobenzen	(75)			524.2		0.02	E83012
2976	Vinyl Chloride	(1)			524.2		0.29	E83012
2977	1,1-dichloroethylene	(7)	01-F27156	1.06	524.2	10/30/01	0.02	E83012
2979	Trans-1,2-dichloroet	(100)			524.2		0.12	E83012
2980	1,2-dichloroethane	(3)			524.2		0.02	E83012
2981	1,1,1-trichloroethane	(200)			524.2		0.21	E83012
2982	Carbon tetrachloride	(3)			524.2		0.29	E83012
2983	1,2-dichloropropane	(5)			524.2		0.33	E83012
2984	Trichloroethylene	(3)			524.2		0.02	E83012
2985	1,1,2-trichloroethane	(5)			524.2		0.23	E83012
2987	Tetrachloroethylene	(3)			524.2		0.21	E83012
2989	Monochlorobenzene	(100)			524.2		0.23	E83012
2990	Benzene	(1)			524.2		0.05	E83012
2991	Toluene	(1000)			524.2		0.41	E83012
2992	Ethylbenzene	(700)			524.2		0.47	E83012
2996	Styrene	(100)			524.2		0.47	E83012

LAB FORMAT FOR REPORTING DRINKING WATER ANALYSES

PUBLIC WATER SYSTEM INFORMATION (to be completed by system or lab)

System Name: Lakeview Hills I.D. #: 3424687

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( ) Clearance ( ) Thm Max Res Time ( ) Plant Tap
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Subcontracted Lab HRS#: _____ --ATTACH HRS ANALYTE SHEET FOR SUBCONTRACTED LAB TOO *

ANALYSIS INFORMATION: (to be completed by lab) Work Order Number: 01-F27155

Date Sample(s) Received: 10/26/01 Group(s) Analyzed & Results attached for compliance with 62-550, F.A.C.:

( ) Nitrate Only ( ) Nitrite Only ( ) Asbestos Only ( ) Trihalomethanes

Inorganics-- ( ) All 17 ( ) Partial
Volatile Organics-- ( ) All 21 (x) Partial
Secondaries-- ( ) All ( ) Partial
Pesticide/PCBs-- ( ) All 30 ( ) Partial

Group I Unregulateds-- ( ) All 13 ( ) Partial
Group II Unregulateds-- ( ) All 23 ( ) Partial
Group III Unregulateds-- ( ) All ( ) Partial
Radiochemicals-- ( ) Single Sample ( ) Qtrly Composite **

**Provide radiochemical sample dates & locations for each quarter

I, MARK RUSLER, do HEREBY CERTIFY that all attached analytical data are correct.

Signature _____

Title: CHEMIST Date: 11/07/01

COMPLIANCE INFORMATION (to be completed by State)

Sample Collection Satisfactory: _____ Sample Analysis Satisfactory: _____

Resample Requested For: _____ Reason: _____

Person notified to resample: _____ Date Notified: _____

DEP/HRS Reviewing Official: _____

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62-550-310(a)

(PWS027)

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2977	1,1-dichloroethylene	(7)	01-F27155	3.39	524.2	10/30/01	0.02	E83012
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2980	1,2-dichloroethane	(3)			524.2		0.02	E83012
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2983	1,2-dichloropropane	(5)			524.2		0.33	E83012
2984	Trichloroethylene	(3)			524.2		0.02	E83012
2985	1,1,2-trichloroethane	(5)			524.2		0.23	E83012
2987	Tetrachloroethylene	(3)			524.2		0.21	E83012
2989	Monochlorobenzene	(100)			524.2		0.23	E83012
2990	Benzene	(1)			524.2		0.05	E83012
2991	Toluene	(1000)			524.2		0.41	E83012
2992	Ethylbenzene	(700)			524.2		0.47	E83012
2996	Styrene	(100)			524.2		0.47	E83012

Marion County Board of County Commissioners
Marion County Fire-Rescue Fire Prevention Division
3230 SE Maricamp Road
Ocala, FL 34471
Phone: (352) 694-7147 Fax: (352) 694-5981

H. W. Barrineau and Associates, Inc.
2100 S. E. 17th Street
Suite 802
Ocala, Florida 34471

Attn: Murray Blackman

Dear Mr. Blackman,

In response to your question concerning the fire flow requirements in Marion County I offer the following.
Marion County Land Development Code requires;
All new water systems or extensions of existing systems shall be designed according to the provisions of the Marion County Fire Prevention Code, specifically , National Fire Protection Association (NFPA) Standard 24, latest version.
Fire flow capacity shall be provided according to the following table:

Distance Between Buildings	Needed Fire Flow
Over 100'	500 GPM
31' - 100'	750
11' - 30'	1000
10' or less	1500

Needed Fire Flow is that amount of water, in gallons per minute, flowing in excess of the average peak domestic demand for two (2) hours, with a residual pressure no less than 20 psi

If you have any questions please feel free to contact me.

Sincerely,

John Lake, Fire Marshal

WATER FACILITIES PLAN

for

Sunshine Utilities of Central Florida, Inc.

Prepared by

January 1999
(Revised September 1999)
(Revised May 2001)

TABLE OF CONTENTS

TABLES

FIGURES

EXHIBITS

Chapter 1.0 - Summary of Findings and Recommendations

Sunshine Utilities of Central Florida, Inc. and H. W. Barrineau and Associates, Inc. prepared the following Water Facilities Plan to define and evaluate the needs of Sunshine Utilities' drinking water systems in the planning area. The planning area considered in preparing this plan includes lands located in Marion County. The planning period extends through the year 2018. The facilities plan was prepared to address the needs of the planning period. The recommendations resulting from this study are consistent with the County's Local Comprehensive Plans.

The existing treatment plants and water distribution systems are not adequate to serve the planning year needs. Sunshine Utilities of Central Florida, Inc., with technical assistance from H. W. Barrineau and Associates, Inc. has assessed the needs, provided recommendations and prioritized the needs in order to prepare a plan of action. The highest priority recognized within the planning area involves the consolidation of five existing water supply in the Belleview-Lake Weir-Ocklawaha area.

The consolidation project has been named the South Marion Regional Water System for the purpose of this facilities plan. The distribution systems within the project area are currently adequate but will require additions before the end of the planning period. Average annual daily demand is projected to be 2.2 million gallons per day within the South Marion County Regional Water System project area. A storage tank needs to be constructed in the distribution system to equalize the variations between the supply and demand. The improvements proposed involve the construction of two new wells, a water storage tank and water distribution piping.

The project cost of the proposed facilities is estimated at $2,015,339. Sunshine Utilities of Central Florida, Inc. has applied for State Revolving Fund (SRF) loans and grants to assist in the development of the South Marion Regional Water System. The annual cost (including operation and maintenance cost [O&M] and debt service for the SRF Loan of the capital cost at 3.5% interest rate*) for the proposed facilities is $245,636. The details of capital and annual O&M costs are shown in Appendix A.

Sunshine Utilities of Central Florida, Inc. operates a single water utility fund. The pledged revenues for debt payments are the water charges by Sunshine Utilities of Central Florida, Inc. The SRF Loan will be repaid in 60 semi-annual installments.

Chapter 2.0 - Introduction

2.1. Background

Sunshine Utilities is a Florida corporation established in 1989 to provide utilities to the residents, businesses and commercial customers in Marion County, Florida. Mr. James Hodges who also serves as the President of the firm established the corporation. Currently, Mr. James Hodges, Jr. serves as Secretary-Treasurer and Ms. Clarise Hodges serve as Vice President. Sunshine Utilities has a staff of four management, three administrative and three field technicians for a total of ten employees.

Sunshine Utilities primarily has provided potable water service to its customers. Several separate water systems have been developed and are operated and maintained throughout Marion County.

Water Systems Descriptions

Sunshine Utilities owns and operates the following water systems in Marion County:

Name of System	PWS ID Number	Number of wells	Plant Capacity (GPD)	Number of lots served
Fore Oaks	3424644	2	260,000	58
Coventry				164
Ballard Acres				23
Ashley Heights	3424962		100,800	50
Floyd Clark Hodge	3420411	1	68,000	47
Emil-Mar	3420340	1	72,000	88
Pearl Britain 1st Addition				40
Sun Ray Estates	3421314	2	400,000	98
Stonehill				85
Baldwin Heights				11
Jasons Landing				51
Carol Estates				239
Sugar Plum				67
Pearl Britain				
Pearl Britain in the Pines				11
Boulder Hill				32
Eleven Oaks	3424099	1	129,600	45
Suttons (Fox Mountain Apt.'s, Sun Resorts)	3421201	1	43,000	33

Name of System	PWS ID Number	Number of wells	Plant Capacity (GPD)	Number of lots served
Oakhaven	3424106	1	576,000	81
Ocala Heights	3424651	3	676,800	168
Reynolds				91
Silverwood Villas				84
Spanish Palms				129
Country Aire				25
Oakhurst	3424032	1	288,000	112
Whispering Sands	3424009	2	331,200	428
Florida Heights	3424031	1	288,000	118
Winding Waters	3424691	2	1,167,000	605
Lake Bryant Ridge				33
Lake Bryant Fish Camp				
Urban MHP				
Easy Living MHP				
Lake Bryant Estates				
Sunlight Acres	3421520	2	216,000	84
Country Walk I	3424657	1	132,480	78
Country Walk II				
Belleview Oaks I	3424121	2	147,000	64
Belleview Oaks II				32
Hilltop at Lake Weir	3424662	1	273,600	69
Lakeview Hills	3424687	1	115,200	56
Little Lake Weir	3420761	2	172,900	507
Ocklawaha	3420939	1	432,000	529
The Sanctuary				24
Lake Weir Pines				
Lake Weir Woods				

An assessment of these water systems has indicated the need to schedule planning and improvement activities to address a variety of operational and service related concerns anticipated during the planning period.

Many of the water systems are in close proximity to each other and would be less costly to operate and maintain if consolidated. This report addresses the facility needs of each water system in Marion County and desire to consolidate the Sunshine Utilities water systems while improving the level of service provided to its existing and potential

customers by providing adequate flow to meet peak demand and promoting water conservation techniques for existing and new developments.

2.2. Need

Planning and design issues have been identified for the following water systems:

SYSTEM	ASSESSMENT COMMENTS
Fore Oaks (includes Coventry and Ballard Acres)	Recommend consolidation with Ashley Heights into a sub regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Ashley Heights	Recommend consolidation with Fore Oaks into a sub regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Floyd-Clark-Hodges (includes Northwoods)	Recommend consolidation with Emil-Marr, Sunray Estates and Eleven Oaks into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Emil-Marr (includes Pearl Britain 1st Addition)	Recommend consolidation with Floyd-Clark-Hodges. Sunray Estates and Eleven Oaks into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.

SYSTEM	ASSESSMENT COMMENTS
Sunray Estates (includes Sugar Plum, Stonehill, Baldwin Heights, Boulder Hill, Pearl Britain, Pearl Britain in the Pines, Carol Estates and Jason's Landing)	System is approximately 25 years old and experiences low pressure problems and line leakage. Recommend a water distribution line replacement program in sections of the system. Recommend consolidation with Floyd-Clark-Hodges, Emil-Marr and Eleven Oaks into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Eleven Oaks	High levels of iron reported from well, which requires frequent flushing. Recommend consolidation with Floyd-Clark-Hodges, Sunray Estates and Emil Marr into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Sun Resorts (includes Suttons and Fox Mountain)	No identifiable issues as of May 2001.
Oakhaven	Numerous complaints regarding taste/odor (Hydrogen Sulfide dissolvable gas is most probable cause). Recommend best available technology alternatives including treatment and removal by chlorination/aeration/activated carbon.
Burks-Ocala Garden Apartments	Routine maintenance and line repair. The system is close proximity to the City of Ocala Municipal Water System. Recommend transfer of ownership to the City of Ocala.

SYSTEM	ASSESSMENT COMMENTS
Ocala Heights (includes Reynolds, Silverwood Villas, Spanish Palms, Country Aire)	Numerous repairs made to service lines. Recommend replacement of polybutylene service lines.
Oakhurst	System service is approaching 300 residents. Recommend installation of backup well and auxiliary power source (generator).
Whispering Sands	No identifiable issues as of May 2001.
Florida Heights	No identifiable issues as of May 2001.
Winding Waters (includes Urban MHP, Lake Bryant Fish Camp, Lake Bryant Ridge, EZ Living MHP, Lake Bryant Estates)	Numerous complaints regarding taste/odor (Hydrogen Sulfide dissolvable gas is most probable cause). Recommend best available technology alternatives including treatment and removal by chlorination/aeration/activated carbon.
Sunlight Acres	Potential exists for surface water influence on wellhead. Recommend wellhead extension to suitable elevation.
Country Walk	No identifiable issues as of May 2001.
Belleview Oaks I (includes Belleview Oaks II)	Recommend consolidation with Hilltop Lakeview Hills, Little Lake Weir and Ocklawaha into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.

SYSTEM	ASSESSMENT COMMENTS
Hilltop at Lake Weir	Recommend consolidation with Belleview Oaks, Lakeview Hills, Little Lake Weir and Ocklawaha into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.
Lakeview Hills	Water system has recently experienced problems with contamination. Recommend consolidation with Belleview Oaks, Hilltop, Little Lake Weir and Ocklawaha into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands, to eliminate the contamination problems and promote water conservation.
Little Lake Weir	Developed areas around existing water system have been identified as contaminated with Ethylene Dibromide. Recommend consolidation with Belleview Oaks, Hilltop, Lakeview Hills and Ocklawaha into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands, to eliminate the contamination problems and promote water conservation.
Ocklawaha (includes Lake Weir Pines, Lake Weir Woods, Sanctuary)	Numerous complaints regarding taste/odor (Hydrogen Sulfide dissolvable gas is most probable cause). Recommend consolidation with Belleview Oaks, Hilltop, Lakeview Hills and Little Lake Weir into a regional water system to improve the level of service for existing and potential customers by providing adequate flow to meet peak demands and promote water conservation.

2.3. Prioritization of Needs

The assessed needs of the Sunshine Utilities of Central Florida water systems in Marion County have been have been evaluated and prioritized for the planning period. By the nature of this facility plan, the needs of the water systems are periodically updated and prioritized. Prioritization of the systems needs encompasses the following criteria:

- Health and safety of the public
- Permitted requirements of the FDEP
- Level of service issues
- Water conservation issues
- Budgeting and Funding

2.3.1. Priority 1 –South Marion Regional Water System

Sunshine Utilities owns and operates five separate water supply and treatment systems that serve the Belleview-Lake Weir Ocklawaha area. These systems are Little Lake Weir, Ocklawaha, Belleview Oaks and Hilltop at Lake Weir. Two of these systems have recently been identified by the Florida Department of Environmental Protection as concerns because of contaminated wells. Other private wells have been abandoned for the same reason. Developed areas around the Little Lake Weir existing water system have been identified as contaminated with Ethylene Dibromide. Lakeview Hills water system has recently also experienced problems with contamination. These two systems along with the Ocklawaha, Belleview Oaks and Hilltop at Lake Weir systems need to be consolidated into a single system to eliminate the contamination problems, meet development demands and promote water conservation. For the purpose of this report, these systems will be referred to as the South Marion Regional Water System.

2.3.2. Priority 2 –Sunlight Acres Water System

Sunshine Utilities owns and operates the Sunlight Acres Water Supply and Distribution System in Marion County. The public supply well is located in a depressional area and has the potential for surface water influence at the wellhead. The wellhead needs to be extended to a suitable elevation in order to prevent surface runoff contamination.

2.3.3. Priority 3 –Winding Waters and Oakhaven Water Systems

Sunshine Utilities owns and operates the Winding Waters and Oakhaven Water Supply and Distribution Systems in Marion County. Based upon the numerous complaints of odor and taste in the water supply an engineering evaluation and design of the best available technologies is needed to increase the level of service and promote water conservation within by these systems.

2.3.4. Priority 4 –Ocala Heights Water System

Sunshine Utilities owns and operates the Ocala Heights Water Supply and Distribution System within Marion County. Due to the age of the system and the requirement for continuous maintenance, the system needs to initiate a line replacement program to increase the level of service and promote water conservation.

2.3.5. Priority 5 –North Marion County Regional Water Systems

Sunshine Utilities owns and operates several separate water supply and treatment systems serve the North Marion County area. Four of these systems are Floyd-Clark-Hodges, Emil-Marr, Sun Ray Estates and Eleven Oaks. These systems need to be consolidated into a single system to eliminate the iron and low-pressure problems, increase the level of service and promote water conservation. For the purpose of this report, these systems will be referred to as the North Marion Regional Water System.

2.3.6. Priority 6 –Oakhurst Water System

Sunshine Utilities owns and operates the Oakhurst Water Supply and Distribution System within Marion County. When the system service reaches 300 residents the need for a backup well and auxiliary power source are required to provide the level of service requirements of the Florida Department of Environmental Protection.

2.3.7. Priority 7 –Ashley Heights/Fore Oaks Sub-Regional Water System

Sunshine Utilities owns and operates several separate water supply and treatment systems serve the North Marion County area. Two of these systems are Ashley Heights and Fore Oaks. These systems need to be consolidated into a single system to increase the level of services and promote water conservation. For the purpose of this report, these systems will be referred to as the Ashley Heights/Fore Oaks Sub-Regional Water System.

Sunshine Utilities of Central Florida, Inc., with technical assistance from H. W. Barrineau and Associates, Inc., has developed a plan of action to immediately address the highest recognized priority of consolidating the South Marion Regional Water System. Funding for the South Marion Regional Water System will be provided by grants and low interest loans through the Florida Department of Environmental Protection Drinking Water State Revolving Fund (SRF). Details of the project and the capital financing plan are addressed within this revision of the facility plan.

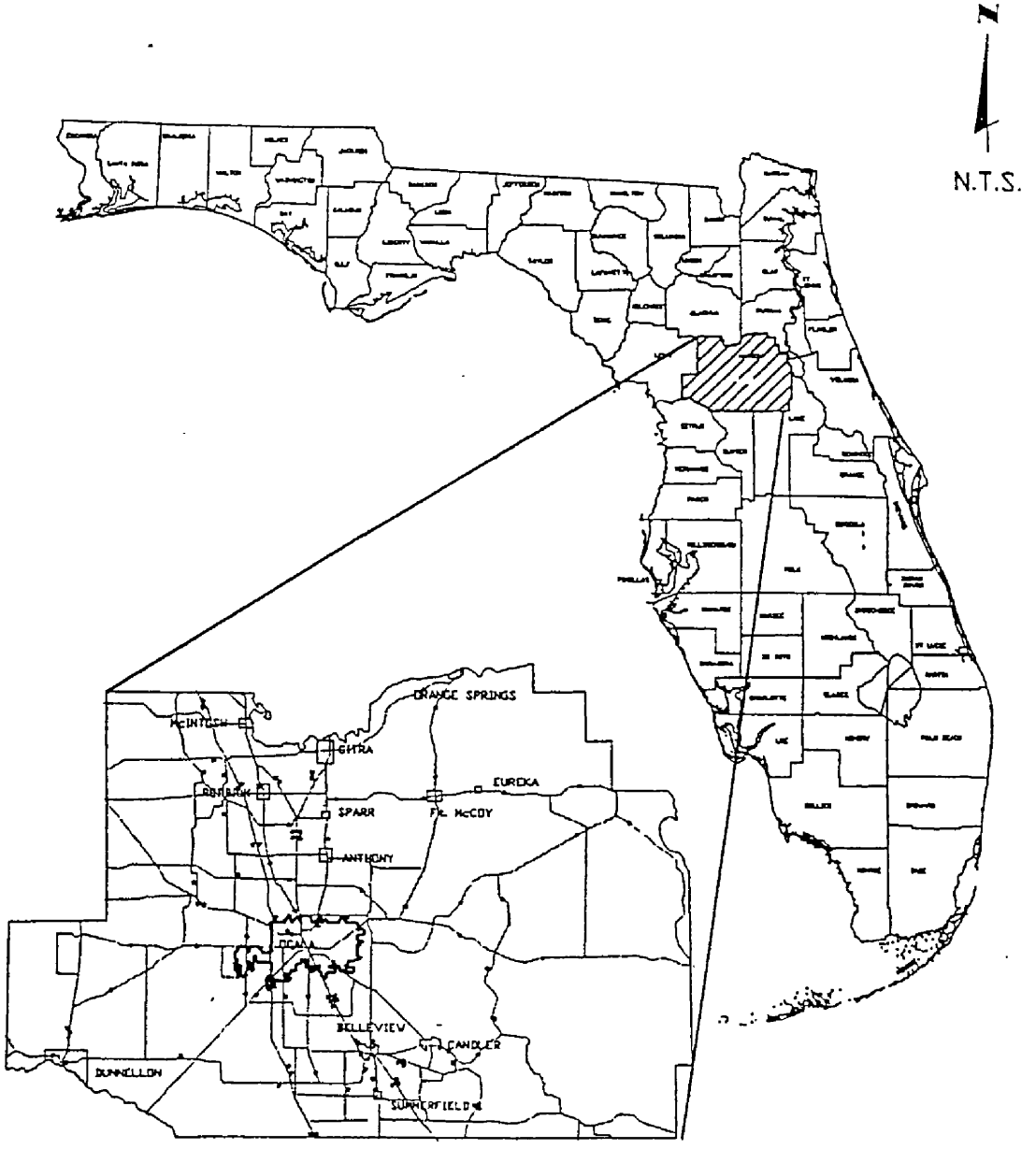
Sunshine Utilities will address the remaining needs once low interest loans, grants or other funding sources are available. As funds become available the facility plan will be updated to include specific plans of action.

2.4. Scope of Study

The scope of the facilities plan is described below:

1. Inventory existing water facilities, service area characteristics, and environmental conditions.
2. Establish design needs for the planning period.
3. Identify and evaluate various water system alternatives to satisfy the planning year needs.
4. Recommend the most cost-effective, environmentally sound facilities to meet the planning needs.
5. Describe, in detail, the recommended facilities and their cost.
6. Present a schedule of implementation of the recommended facilities.
7. Identify any adverse environmental impacts and propose mitigating measures.
8. Identify a source of financing and estimate the cost per household.

Figure 1: Sunshine Utilities of Central Florida, Inc. Planning Area



(Scale: N.T.S.)

Chapter 3.0 - Existing Conditions

3.1. Description of Planning Area

3.1.1. Planning Area

The planning area for Sunshine Utilities encompasses all of Marion County.

Marion County is located in the north-central part of Florida and bounded on the East by Lake County, on the South by Sumter County, on the West by Levy County, and on the North by Alachua County.

Marion County covers approximately 1,030,400 acres. Agriculture utilizes over 50 percent (547,334acres) of the area while only a little over 10 percent (116,933 acres) is utilized by residential. An estimated 314,400 acres is allocated to conservation. The remainder is designated as commercial (7,974 acres), industrial (3,607 acres), recreation (2,248 acres), institutional (1,400 acres), and public facilities (36,533 acres). Major industries in Marion County include horse breeding, defense electronics, health care, and retirement communities.

According to the last census data available (1990), Marion County's population was approximately 194,800. With a growth stemming from the immigration of new residents (93 percent between 1980 and 1989) the population is expected to continue to grow at a steady pace. The majority of the new residents are middle aged or retired.

The northern part of Marion County has gently sloping terrain with relatively poor soils for maintaining extensive development, therefore is generally rural in nature and supports many of the nationally recognized horse breeding farms for which Marion County is known. The eastern part of Marion County lies within the Ocala Nation Forest where development is limited. The southern part of Marion County is bordered by the Ocklawaha River to the east and the northern Ocala border to the north and excludes the City of Ocala. This area includes West Ocala, the State Road 200 corridor, Dunnellon/Rainbow River, South Ocala, Belleview, Lake Weir and Silver Springs. The southern region has experienced the highest growth and yields the greatest demand in water service.

The City of Ocala, the County seat, is located in the center of the County and is the largest municipality within Marion County. U.S. Interstate Highway 75 passes through west Ocala and represents a major thoroughfare for incoming tourism.

3.1.2. Service Area

The service area for Sunshine Utilities of Central Florida is identified on the service area map (Figure 2).

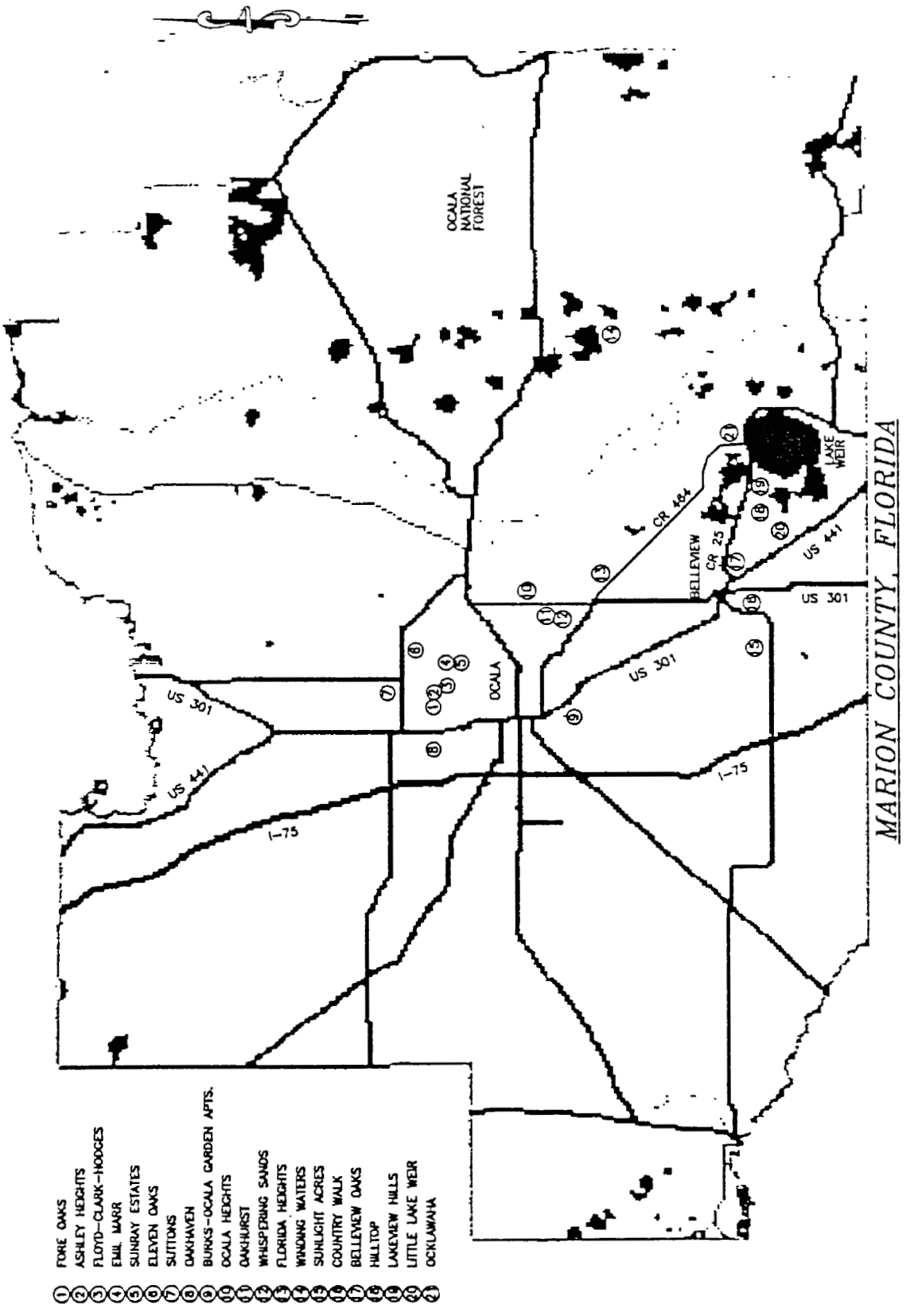


Figure 2: Sunshine Utilities of Central Florida, Service Area

3.1.3. Climate

Annual average temperatures range from a high average of 82° F to a low average of 59° F. Monthly average rainfall is 3.75 inches. Prevailing winds in the fall and winter are northerly and in the spring and summer are southerly.

3.1.4. Topography and Drainage

Marion County is characterized by rolling uplands and to a lesser extent nearly level flatwoods. Most of the flatwoods are in the northeast, but small areas are also in the extreme southeastern, southwestern and northwestern parts of the county. Soils in the service area are generally excessively drained with two small isolated areas where soils are poorly drained.

3.1.5. Geology, Soils and Physiography

Soils have been mapped for the Natural Resources Conservation Service of the U.S. Department of Agriculture (Figure 2). Astatula and Arredondo sands are characteristic of the service area while there exist two areas of Okeechobee/Terra Ceia/Tomoka muck are located along the southwestern and northeastern sides of Lake Weir. There is a thick sequence of limestone formations known as the Floridan Aquifer, which underlies the entire county.

3.1.6. Surface and ground water hydrology

Marion County is blessed with good water resources, beginning with an average annual rainfall of approximately 59 inches and including abundant groundwater and surface water resources. Groundwater is primarily available in the thick sequence of limestone formations known as the Floridan Aquifer, which underlies the entire county.

The Florida Aquifer supplies large quantities of water to wells tapping the limestone units and is also the source of most of the discharge from the numerous springs in the County. The Floridan Aquifer yield varies greatly from place to place due to the change in aquifer characteristics. A 12-inch well is expected to yield at least 2,000 GPM in central Marion County (Ocala area), at least 1,000 GPM in the eastern two thirds of the County, and 500 GPM in the western part of the County. The Floridan Aquifer varies in Marion County from about 1,000 feet in thickness in the southern part of the County to more than 1,500 feet in the north-central part of the County.

There are no Outstanding Florida Waters in the service area. All surface waters are designated Class III waters, suitable for recreation and for propagation of fish and wildlife. The service area is located within the Ocklawaha River and St Johns River drainage basins.

The water quality varies depending upon the depth within the aquifer and local geologic conditions. The quality of water from wells tapping the Floridan Aquifer in Marion County is excellent throughout most of the County down to

depths of 750 to 1,000 feet. An exception is the extreme eastern part of the County where the water is mineralized.

In general, the chloride content is less than 250 mg/l and sulfate concentrations are less than 50 mg/l throughout most of the county. Water from the Floridan Aquifer is generally hard to very hard exceeding 180 mg/l in the western part of the County. Iron and hydrogen sulfide are sometimes a problem, particularly in wells tapping the upper part of the aquifer. Dissolved solids concentrations are less than 250 mg/l over most of the County. In the western part of the county predominate constituents are calcium and bicarbonate. In the eastern part of the county the predominate constituents are sodium and chloride.

Based on water quality considerations and potential yield of wells, the best groundwater supply areas of Marion County lie in the eastern half of the County. For the purposes of this report, surface waters, springs and lakes were not considered for water supply.

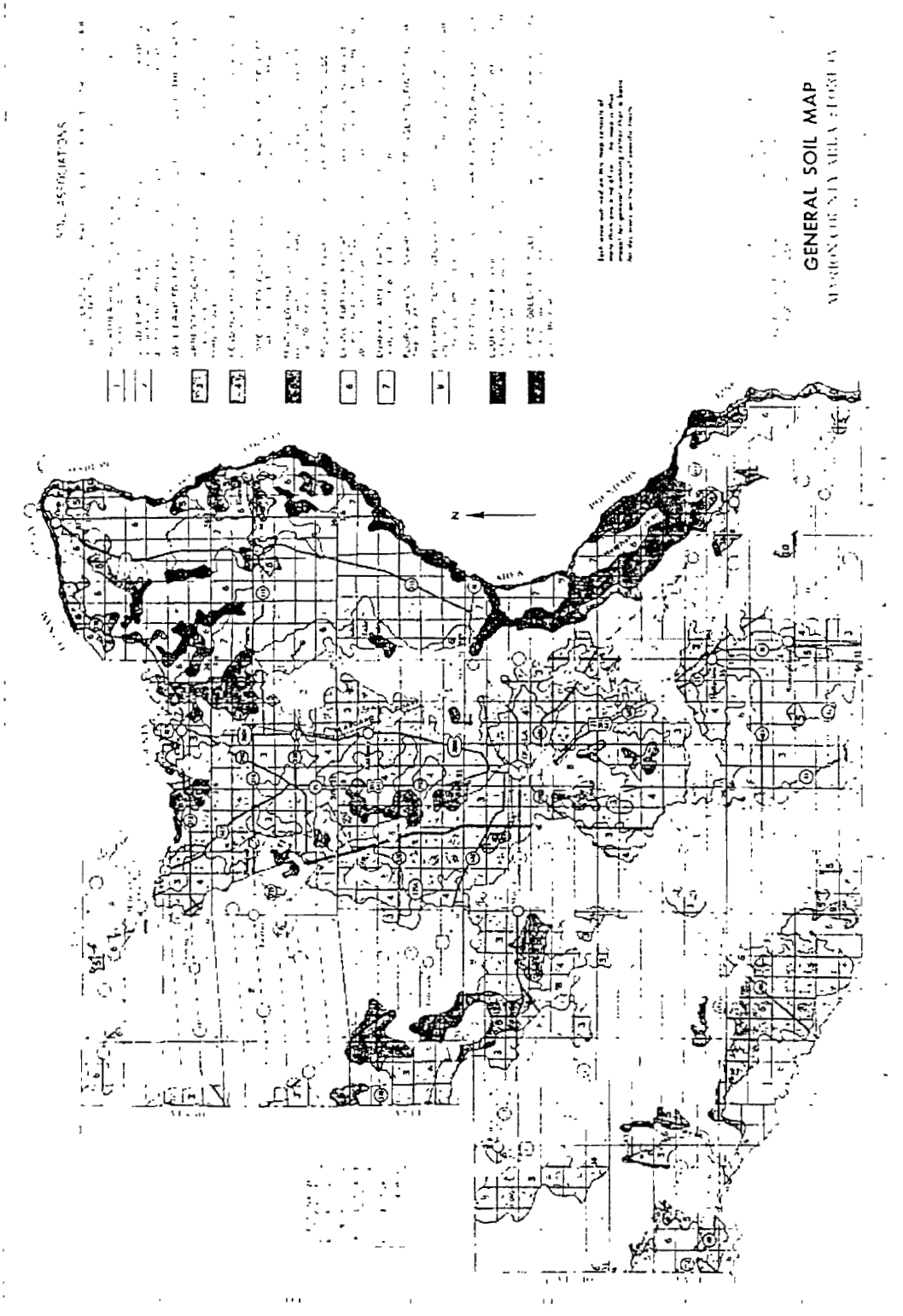


Figure 3: Soil Survey Map for the Planning Area

3.1.6. Ecology

3.1.6.1. Wetlands

Although wetlands border Lake Weir and Little Lake Weir in some areas, there are no wetlands within the existing service area.

3.1.6.2. Environmentally Sensitive Lands

According to the USDA Natural Resources Conservation Service, there are not any environmentally sensitive lands in the service area.

There are no lands within the South Marion County Regional Water System area owned by a government agency or private organization designated or dedicated for recreation, conservation, preservation, wildlife management and/or protection of the natural resources. There are no areas of known concentrations of State or Federally protected plant or animal species in the service area. There are no known areas that have been targeted for acquisition for these purposes.

3.1.6.3. Plant and Animal Communities

The natural vegetation in the project area is chiefly sand pine, blackjack oak and sand live oak and a sparse understory of rosemary, pineland three-awn and palmetto. Around the edges of some of the small ponds is scattered slash pine, longleaf pine and palmetto. In the areas left as woodlands, there is only a limited supply of food for wildlife and provide only a limited amount of protection. Wetland grasses and sedges are in the ponds. There are no known rare, endangered or threatened species of vegetation. There are no known rare, endangered or threatened species of animals.

3.1.7. Air Quality

Air quality within the service area is considered to be in attainment of the State and Federal Ambient Air Quality Standards.

3.1.8. Archeological and Historical sites.

There are no known national or natural landmarks in the service area.

3.1.9. Flood Plain

Flood plains are generally confined to the areas immediately adjacent to tributaries draining into Lake Weir through Ocklawaha and adjacent to the boundaries of Lake Weir. One flood plain (Zone A) approximately 400 linear feet in length crosses the proposed pipeline in a small area on County Road 25 approximately 4200' south of the proposed storage tank. The remainder of the service area is outside the hundred-year flood plain.

3.2. Organization Context

Sunshine Utilities of Central Florida, Inc. has the sole responsibility and authority to build, operate, and maintain the water system. No inter-local agreements are necessary for Sunshine Utilities of Central Florida, Inc. to provide drinking water services throughout the planning area. The planning area has been certified by the Public Service Commission as the area served by Sunshine Utilities of Central Florida, Inc. Sunshine Utilities of Central Florida, Inc.'s technical staff provides the drinking water services. H. W. Barrineau and Associates, Inc. provides engineering services and technical assistance on an as needed basis. The systems are operated continuously with at least one person licensed as a Class C Drinking Water Operator or higher. The lead operator is licensed as a Class B Drinking Water Operator or higher. Sunshine Utilities of Central Florida, Inc. uses a State certified laboratory where routine water analysis is performed.

3.3. Socio-economic Conditions

3.3.1. Population

According to the last census data available (1990), Marion County's population was approximately 194,800. With a growth stemming from the immigration of new residents (93 percent between 1980 and 1989) the population is expected to continue to grow at a steady pace. The majority of the new residents are middle aged or retired.

3.3.2. Land Use and Development

The northern part of Marion County has gently sloping terrain with relatively poor soils for maintaining extensive development, therefore is generally rural in nature and supports many of the nationally recognized horse breeding farms for which Marion County is known. The eastern part of Marion County lies within the Ocala Nation Forest where development is limited. The southern part of Marion County is bordered by the Ocklawaha River to the east and the northern Ocala border to the north and excludes the City of Ocala. This area includes West Ocala, the State Road 200 corridor, Dunnellon/Rainbow River, South Ocala, Belleview, Lake Weir and Silver Springs. The southern region has experienced the highest growth and yields the greatest demand in water service.

The City of Ocala, the County seat, is located in the center of the County and is the largest municipality within Marion County. U.S. Interstate Highway 75 passes through west Ocala and represents a major thoroughfare for incoming tourism.

3.4. Water Quality and Uses

3.4.1. Major bodies of water in the Planning area

All surface waters are designated Class III waters. The Ocklawaha River, which is outside the service area, is the major stream in the watershed. A few tributaries in the service area drain into Lake Weir. There are no wild or scenic rivers in the service area.

3.4.2. Water Uses

The Floridan Aquifer is the only source of drinking water in the planning area. Lake Weir is mostly used for recreational purposes.

3.4.3. Surface Water Quality

The water quality in Lake Weir is relatively good but not considered as a source of drinking water because groundwater is generally available.

3.4.4. Groundwater Quality

All of the ground waters in the planning area are designated class G-II (potable water use). The potential for ground water contamination under the influence of surface water is extremely low. This is based upon the existing low density population and the low impact of the businesses in the South Marion County Regional Water System area. Additionally, the wells to be constructed are in excess of one-half mile from the nearest surface water.

Sources of contamination to the upper Floridan Aquifer include surface runoff, spills of potential contaminants, leaking underground storage tanks, wastewater effluent disposal, drain fields and landfill leachate. Typical entry into the aquifer occurs through limestone outcroppings, sinkholes and drainage wells. The potential for contamination from commercial activities, which result in, contaminates in stormwater surface runoff is present only in Ocklawaha proper.

Thirty-one (31) of the thirty-eight (38) commercial establishments within the South Marion County Regional Water System area are located in Ocklawaha. These commercial activities are predominately small businesses. There are no industrial activities in the South Marion County Regional Water System area. The potential for contamination from wastewater effluent is low since there are no wastewater treatment and effluent disposal systems in the South Marion County Regional Water System area. Contamination potential is greater from septic tank drainfields. In the area just south of Lakeview Hills, Marion County maintains a closed landfill. It is believed to be the source of chemical contamination in the potable wells at Lakeview Hills water plant and nearby private wells.

Refer to section 3.5.6 for more discussion of this contamination.

3.4.5. Sourcewater Protection

Designating protection areas in which special controls are imposed on potential hazardous materials and activities is commonly used for protecting groundwater supplies. Wellhead protection areas range from a few hundred feet to several miles from supply wells. Criteria for delineating protection areas includes the characteristics of the aquifer, the vulnerability of the aquifer to contamination from surface sources and the extent and type of development surrounding the well. Marion County's Future Land Use Element states the requirements for

wellhead protection areas be established for wells, which produce more than 100,000 gallons per day. Requirements for establishing protection areas shall be based on travel times, pollution potential and locations of potential contaminants within these areas. A primary protection zone within 200 feet of a well and a secondary protection area within 1,000 feet are listed as interim guidelines until specific protection zones for each well field are determined.

The list of potential sources of contamination as listed in Appendix E, U.S. Environmental Protection Agency's "State Water Assessment and Protection Programs Guidance", EPA 816-R-97-009, August 1997, has been reviewed. As a result of this review, the only significant pollution source within the 500-foot primary zone and the 1000-foot secondary zone that would potentially affect sources of drinking water is one on-site wastewater system (septic tank). Marion County has wellhead protection zone requirements and they will be met.

3.4.6 Private Water Wells

There are a number of individual private wells serving homes and small businesses in the South Marion Regional Water System area. There are not any major commercial or industrial wells in the areas served by Sunshine Utilities. Private wells at seven homes in the area served by the Lakeview Hills water treatment plant were contaminated by ground water from the closed Davis Landfill, Marion County. The potential exists for contamination of other wells in this area.

3.5. Existing Water Supply, Treatment, and Transmission/Distribution system

3.5.1 Present and historical water usage

The per capita water consumption is usually taken as 100 GPD. Historical data from the five systems within the service area indicate an average daily demand of 221 GPD per connection and a maximum daily demand of 522 GPD per connection.

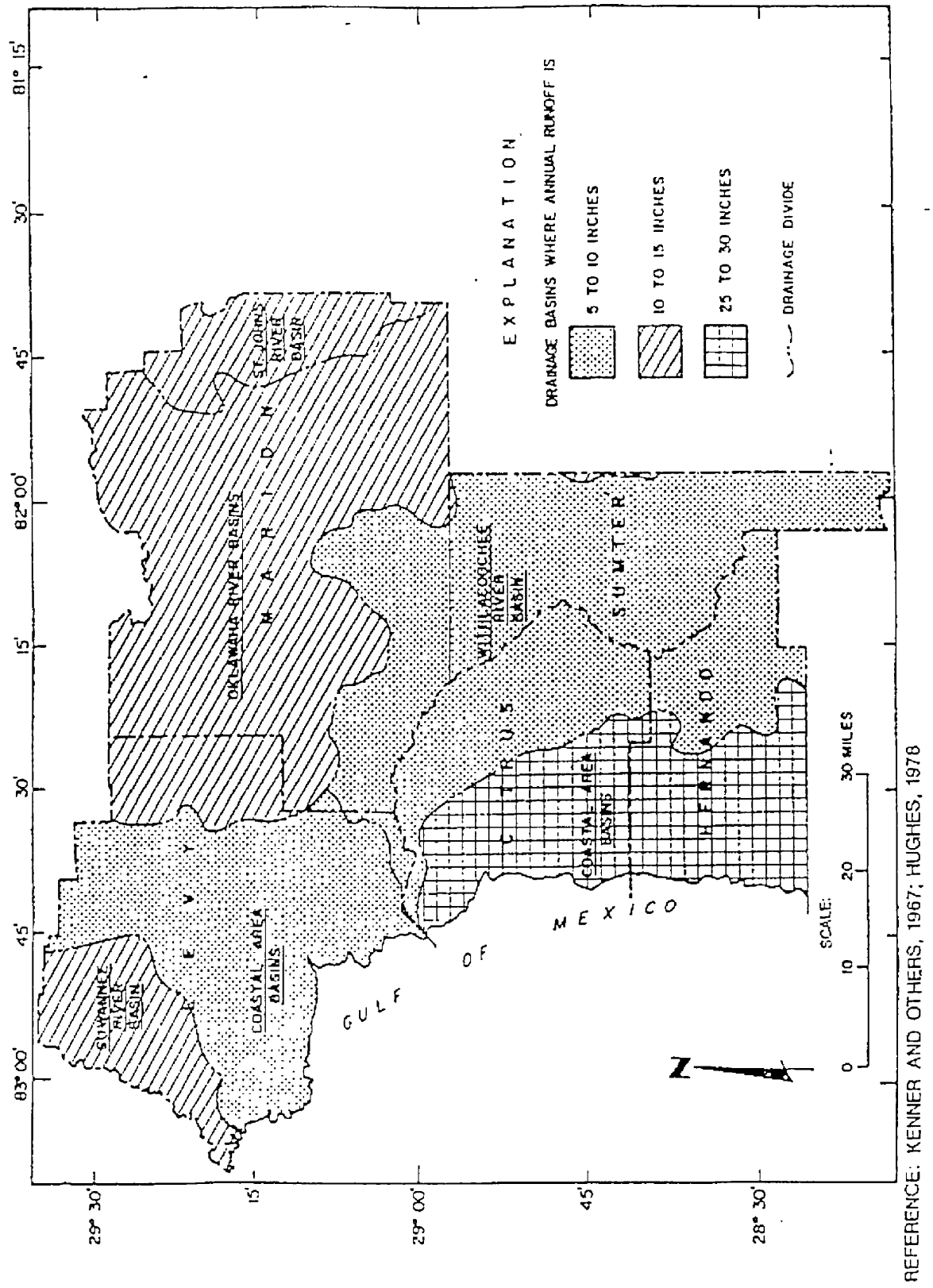


Figure 4: Drainage Basins –Marion County

3.5.2. Water Conservation

Individual water meters are used throughout the service area. Utility consumers are periodically reminded, via monthly billing, that water bills depend on water use. Information about water saving faucets and plumbing fixtures is also sent out periodically with the billings.

3.5.3. Description of the Existing South Marion County Regional Water System

Name of System	1995 Maximum Daily Flow (GPD)	1996 Maximum Daily Flow (GPD)	September 1996 Average Daily Flow (GPD)	Number of existing customers
Little Lake Weir	51,600	73,200	172,900	304
Ocklawaha The Sanctuary Lake Weir Pines Lake Weir Woods	120,100	221,900	83,473	275
Belleview Oaks I Belleview Oaks II	26,900	38,800	16,503	82
Hilltop at Lake Weir	6,900	13,000	9,143	24
Lakeview Hills	13,100	36,600	10,123	50
TOTAL	218,600	383,500	292,142	735

- 1995 ratio of average daily demand to maximum daily demand = 1.46
- 1996 ratio of average daily demand to maximum daily demand = 2.36
- Average daily demand per connection = 221 GPD = 148 GPD per lot served
- Maximum daily demand per connection = 522 GPD = 349 GPD per lot served
- Percentage of developed lots currently being served in these areas = 66.8%

These water systems were constructed from 1978 through 1996. Presently, the distribution system has approximately 67,000 linear feet of 2" to 8" diameter pipe. The conditions of the distribution pipes varies from "fair" for some of the original pipes to "excellent" for the more recent additions.

The raw water source for the water systems is the Floridan Aquifer. Raw water is pumped from the wells at each water plant site to the hydropneumatic tanks on site. The raw water pumps and the raw water transmission mains are generally in good condition.

Maps showing the existing water systems are provided in Exhibit A.

3.5.4. Performance of Existing Water System

The distribution systems experience occasional leakage problems, which are immediately addressed by the staff.

The treatment plants are adequate to treat the existing demands. The raw water transmission mains to the treatment plant have adequate capacity. As with most water plants, the chlorination equipment needs to be replaced periodically.

All treatment plants consist of a hydropneumatic tank and a chlorinator. The only treatment process used is disinfection. These plants do not generate residuals and there is no backwash. Specific details are listed below:

Location	Number of Wells & Depth	Size of Tank (gallons)	Size of Well (inches)
Belleview Oaks	1 @ 160'	2,000	6
Hilltop at Lake Weir	1 @ 101'	10,000	6
Little Lake Weir	1 @ 250' and 1 @ 170'	5,000	4 4
Lakeview Hills	1 @ 135	2,500	4
Ocklawaha	1 @ 315 and 1 @ 264	10,000 and 5,000	8 6

3.5.5. Operation and Maintenance Program

Sunshine Utilities of Central Florida, Inc. staff are maintaining and operating the water system. Repairs/rehabilitation of the water mains due to broken pipes and joints are periodically made. The treatment plants are operated continuously.

3.5.6. Need for Facilities

The existing distribution system is currently adequate within the service area subdivisions, but will require additional lines before the end of the planning period because of continued new development. Consolidation of the five systems into the South Marion County Regional Water System will require the installation of two 10" wells capable of delivering 500 GPM each.

The treatment plant does not have adequate capacity for the design year needs. The new water treatment plant will require a 0.500 MG elevated water storage tank.

Sampling and testing of private wells just north and west of Marion County Davis Landfill and Lakeview Hills Water Treatment Plant well just east of Davis Landfill has from September of 1994 through February of 1999 indicated contamination with several constituents. These include the following:

Vinyl Chloride (Chloroethene, Chloroethylene) - An extremely toxic and hazardous material by all means of exposure. A carcinogen.

1, 1 Dichloro Ethylene - Toxic by ingestion, inhalation and skin contact.

Dichloromethane (Methylene Chloride) - Toxic. A narcotic. A suspected human carcinogen.

BIS (2 Ethyl-Hexyl) Phthalate - Liquid used in vacuum pumps.

Volatile Organic Compounds

1, 1 Dichloroethene

The most recent results, February of 1999, indicate some of these constituents are still present in the public well at Lakeview Hills.

Chapter 4.0 - Future Conditions.

4.1. Planning and Design Horizons

It is planned to design the facilities for the year 2018, covering a design period of 20 years. The planning year is also 2018.

4.2. Population and Census Tracts

Marion County is divided into 48 census tracts. Within these census tracts, incorporated Marion County consists of approximately 8,000 census blocks grouped into approximately 143 enumeration districts.

Using the past history of the census tracts' population, the future population projection is made for the census tracts. Marion County's future population is estimated by summing all of these census tract population projections. It is estimated to be 398,989 in 2018.

4.3. Land Use and Demography.

Residential development is expected to continue in the planning and service areas. Commercial development is expected to occur sparsely in the service area. There is very little industrial growth expected in the service area. Land value is expected to increase by approximately four percent annually.

4.4. Water Demand Projection.

The water demand for 2018 is developed based upon the assumptions listed below.

1. 66.8% percent of the South Marion Regional Supply area is already developed and currently being served.
2. A 3 percent increase in population for the planning area.

4.5. Design Demand

The design demand resulting from the above assumptions is listed in Table 1, below.

4.6. Proposed Area

A map for the proposed area is provided in Exhibit B.

Table 1: Water Usage Projection (1998 - 2018)

	Residential Use Being Served		Residential Use Not Being Served		Non-Residential Use	
	Present (1998)	Future (2018)	Present (1998)	Future (2018)	Present (1998)	Future (2018)
Connections	697	4207*	1170	0*	38	69
Average Daily Demand	154,037 GPD	929,747 GPD	258,570 GPD	0	8,398 GPD	15,249 GPD
Average Daily Maximum Demand	363,834 GPD	2,196,054 GPD	610,740 GPD	0	19,836 GPD	36,018 GPD

	Total (1998)	Total (2018)
Average Daily Demand	421,005 GPD	944,996 GPD
Average Daily Maximum Demand	994,410 GPD	2,232,072 GPD

Assumptions:

1. Annual population growth of 3%.
2. Average daily demand of 221 GPD per connection.
3. Average daily maximum demand of 522 GPD per connection.

* There are currently 3510 connections not being served by Sunshine Utilities. We expect these connections to be the future growth of Sunshine Utilities by the year 2018.

- Total projected maximum daily demand of all areas and subdivisions within the South Marion County Regional Water System area = 2.2 MGD.

Chapter 5.0 - Development of Alternatives

5.1. Description of Alternatives

a. No Action.

This alternative will require no cost. It is the continuance of the existing water system, which has been in service for approximately 21 years. This alternative presents a situation where chemical contamination problems will continue to occur in the existing water system.

b. Upgrade the existing Lakeview Hills Water Treatment Plant coupled with the installation of filter units at each homeowner in the service area.

This alternative involves the addition of packed tower aeration and granulated activated carbon filter unit at the water treatment plant coupled with the installation of package filter unit at each homeowner. This alternative will eliminate the chemical contamination problems.

c. Construct water supply wells, treatment, and storage tank.

This alternative proposes the consolidation of the existing water systems in the Belleview - Ocklawaha - Lake Weir areas into a single water system that will be served by one water supply, treatment, and storage system. This alternative will require the construction of a network of water mains. However, it will utilize the existing water distribution systems in Belleview, Ocklawaha, and Lake Weir areas.

This alternative involves the cosntruction of two wells, disinfection facilities, a 500,000 gallon elevated storage tank, and approximately 13 miles of 6 to 10 inch diameter water mains.

5.2. Complexity

The degree of difficulty in operating and maintaining the processes and equipment of the above alternatives is the same.

5.3. Compatibility

The technology required and equipment used for the above alternatives are identical.

5.4. Implementability

Implementing the No Action invites health risks due to chemical contamination. Also, the system will not meet the peak demand of the community.

The upgrade of the existing Lakeview Hills Water Treatment Plant coupled with the installation of filter units and the construction of new water supply system, disinfection facilities, and storage tank alternatives offer more reliable option than the no action alternative and are implementable.

5.5. Environmental Effects/Impacts

The environmental effects/impacts of the above alternatives are the same. The alternatives will not adversely affect the environment.

5.6. Availability of Parts and Service

Parts and service for the components of the water supply system, disinfection facilities, and storage tank are readily available locally.

5.7. Cost Effectiveness Analysis

Present worth has been used to compare the various alternatives developed in this facilities plan. Present worth combinations for the viable alternatives incorporated the following considerations:

a. Planning period of 20 years.

b. Discount rate of 6 7/8%.

c. Capital costs (land acquisition, construction, contingency, engineering, legal, fiscal, and administrative costs).

d. Operation, Maintenance, and replacement costs.

e. Salvage values based on appropriate useful lives of various project components (land - permanent, conveyance and treatment related structures, including piping, tanks, buildings and appurtenances - 40 years; and equipment-15 - 20 years).

f. Costs are obtained from recent bids and sales representatives/consultants in the area.

The no action alternative requires no capital cost. However, this is not acceptable due to the existence of chemical contamination in the existing water system.

The cost - effective analysis for the upgrade of the Lakeview Hills Water Treatment Plant coupled with the installation of filter units at each homeowner in the service are and the construction of new water supply system, disinfection facilities, and storage tank is presented in Appendix 2.

Chapter 6.0 - The Selected Plan

6.1. Description of Proposed Facilities

Sunshine Utilities proposes to consolidate the above existing water systems in the Belleview-Ocklawaha-Lake Weir area into a single water system served by one water supply, treatment and storage system (South Marion Regional Water System). To consolidate these systems, a new water supply and treatment facility will be required as well as a network of new water mains installed to the areas currently served by the existing water systems.

6.1.1. Rational for Selecting the Alternative

The plan to construct new water supply wells, a new treatment plant and storage tank was selected because it was the alternative best suited to meet the needs of Sunshine Utilities. This alternative will meet peak water demand of customers in the South Marion County Regional Water System area and resolve the contamination problems in the Lakeview Hills service area.

The No Action alternative would have Sunshine Utilities continue to operate as they do now and the contamination problems would continue to occur. The plants have reached their design operational levels and are currently operating in their reserve capacity. This option is not viable.

The alternative for upgrading the existing Lakeview Hills plant is not cost - effective, therefore it was not selected.

Accordingly, the construction of new water supply wells, a new treatment plant and storage tank is the most effective option. This alternative would provide sufficient capacity to meet water peak demand, eliminate the current contamination problems in the Lakeview Hills service area and upgrade the equipment in the overall system. This is the most cost - effective alternative, therefore it was selected.

6.1.2. Location

Sunshine Utilities proposes to locate the new water supply, treatment and storage facilities on property owned by Sunshine Utilities, Inc. next door to the corporate headquarters at 10230 East Highway 25 between Belleview and Ocklawaha. A map for the proposed distribution area is provided in Exhibit B.

6.1.3. Water Supply

The proposed new water supply will consist of (2) 10-inch diameter wells with submersible turbine pumps. Initially, the pumps will be sized to deliver 500 GPM each for a total supply capacity of 1000 GPM. As demand increases the pumps can be

upgraded to deliver a minimum of 800 GPM each. The well depths are projected to be approximately 270 feet.

6.1.4 Water Treatment and Storage

Based upon historical data and the projected quality of the water source, the proposed new water system will likely only require disinfection. Disinfection will be accomplished with the addition of chlorine. At this time no other treatment is anticipated. Storage reservoirs provide service storage to meet peak demands often imposed on a distribution system and to equalize operating pressures. The main categories of storage reservoirs include surface reservoirs, standpipes and elevated tanks. Standpipes or elevated tanks are normally employed where the construction of a surface reservoir would not provide sufficient head. Because use of a standpipe or surface reservoir at the proposed water storage location is not conducive to providing sufficient head for all parts of the service area, an elevated tank is proposed.

The capacity of the elevated storage tank is a function of the capacity of the distribution network, the location of the storage tank, and the demands placed on the system. The following mathematical model indicates the need for ≈ 470,000 gallons of storage.

The required operating storage can also be determined graphically from a mass diagram or hydrograph (pages 31 and 32) indicating the hourly rate of consumption. Refer to the Figures included herein. To meet the current and projected demand for the South Marion County Regional Water System area, a storage capacity of 500,000 gallons is proposed.

Time	Average Hourly Demand Rate GPM	Hourly Demand Gallons	Cumulative Demand Gallons	Hourly Demand As Percentage of Average	Average Hourly Demand Minus Hourly Demand "-"	"+"
12.00 AM	0	0	0	0		
1 00 AM	694	41617	41617	45.4		50050
2.00 AM	674	40425	82042	44 1		51242
3 00 AM	646	38775	120817	42.3		52892
4 00 AM	631	37858	158675	41.3		53808
5.00 AM	636	38133	196808	41 6		53533
6 00 AM	660	39600	236408	43 2		52067
7 00 AM	1164	69850	306258	76 2		21817
8 00 AM	1664	99825	406083	108 9	-8158	
9 00 AM	1800	107983	514067	117 8	-16317	
10.00 AM	1888	113300	627367	123.6	-21633	
11 00 AM	1936	116142	743508	126 7	-24475	
12.00 PM	2023	121367	864875	132.4	-29700	
1.00 PM	2066	123933	988808	135 2	-32267	
2.00 PM	2038	122283	1111092	133.4	-30617	
3 00 PM	2023	121367	1232458	132.4	-29700	
4 00 PM	2032	121917	1354375	133	-30250	
5.00 PM	2131	127875	1482250	139.5	-36208	
6 00 PM	2342	140525	1622775	153 3	-48858	
7.00 PM	2987	179208	1801983	195.5	-87542	
8.00 PM	2664	159867	1961850	174 4	-68200	
9:00 PM	1616	96983	2058833	105 8	-5317	
10:00 PM	822	49317	2108150	53.8		42350
11.00 PM	790	47392	2155542	51 7		44275
12 00 AM	732	43908	2199450	47 9		47758
	Average	2,199,450			-469,242	469,792
Average Hourly Demand =		91667	Gallons			

6.1.5. Distribution System

The individual subdivisions and outlying distribution systems will be connected to the new water system by a network of main lines. The main lines proposed vary in size from 6 inch to 10 inch. A flow distribution network analysis was performed to determine the pipe sizes necessary to meet existing and projected demands and pressure requirements. In a few locations, the pipe sizes could actually be one size smaller if no additional growth was expected in the South Marion County Regional Water System area. Since the rate of growth is unpredictable, the main network of pipes has been adequately sized to accommodate the projected growth discussed herein. Refer to the enclosed map indicating the proposed distribution network.

6.2. Environmental Impacts of Proposed Facilities

The short-term impacts during construction include increased noise levels, increased airborne particulates and surface run-off during rainfall on the site. Control measures will be implemented to minimize these temporary effects. The long-term impacts of the South Marion County Regional Water System are beneficial. The area customers will have adequate uninterrupted water supply.

The proposed project will not have significant adverse effects on wild and scenic rivers or on flora, fauna, threatened or endangered plant or animal species, prime agricultural lands, wetlands, undisturbed natural areas, or the socio-economic character of the area. No known archeological, historical or cultural sites are recorded in the area of construction.

6.3. Cost to Construct Facilities

The details of construction and the O&M costs for the South Marion County Regional Water System are presented in Appendix A. The following tabulation presents the total South Marion County Regional Water System cost inclusive of the non-construction items.

Construction Costs		$1,520,287
Contingency		$ 152,029
Technical Services		$ 179,000
	Subtotal	$1,851,316
Administrative Allowance		$ 12,000
Total South Marion County Regional Water System Cost		$ 138,849
	Subtotal	$ 150,849
Loan Repayment Reserve		$ 60,065
	Subtotal	$ 60,065
Total Post-Allowable South Marion County Regional Water System Cost		$2,062,230
	Say	$2,063,000

6.4. Consistency with the Comprehensive Plan

The recommendation resulting from this study is consistent with the County's local comprehensive plan.

Chapter 7.0 - Implementation and Compliance

7.1. Public Hearing/Dedicated Revenue Hearing

Notice for a Public Hearing/Dedicated Revenue Hearing was published in the Ocala Star Banner on March 2, 1999. The Public Hearing Dedicated Revenue Hearing was held on 9 March 1999 at 9:00 A.M. at the Masonic Lodge at 5871 S. E. Baseline Road, Belleview, Florida to discuss the Water Facility Plan and receive comments and/or questions from the public. A project location map and narrative were available for handout. In attendance were Ms. Pam Christmas, Manager of Sunshine Utilities of Central Florida, Inc. and Hal W. Barrineau, P.E. of H. W. Barrineau and Associates, Inc. The meeting was called to order by Ms. Christmas at 9:00 A.M. No other persons were in attendance and the meetings was adjourned at 9:50 A.M. Copies of the notice of public hearing, resolution adoptions and hearing minutes are in Exhibit C.

7.2. Regulatory Agency Review

To qualify for a subsidized loan from the SRF, various governmental agencies must be satisfied with the way that Sunshine Utilities of Central Florida, Inc.'s water system problem is to be solved. Copies of the facilities plan adopted by Sunshine Utilities of Central Florida, Inc.'s are to be sent to the following government agencies for review and comments.

1. Florida Department of Environmental Protection
2. Florida Department of Health
3. St. Johns Water Management District
4. U. S. Environmental Protection Agency
5. Withlacoochee Regional Planning Council
6. Department of Community Affairs, State Clearinghouse

7.3. Financial Planning

The Florida Department of Environmental Protection's SRF is expected to be the financing source for the South Marion County Regional Water System. A capital financing plan (CFP) has been prepared to explain to the public and to the State Agency what the financial impact on the users of the water system will be. The CFP is shown in Appendix B. The CFP indicates that the Sunshine Utilities of Central Florida, Inc.'s serve 2045 residential customers who pay 100% of the annual cost. A user system rate has been prepared to determine the charges to be paid by each user class. The user system rate with a draft ordinance to implement the same is shown in Appendix E. The average residential user rate is expected to increase by $1.53 per month as a result of the South Marion County Regional Water System. The total monthly water bill is expected to average $22.29 for a residential user with normal water consumption.

7.4. Implementation

Sunshine Utilities of Central Florida, Inc. has the sole responsibility and authority to implement the recommended facilities. There are no inter-local agreements necessary for Sunshine Utilities of Central Florida, Inc. to provide drinking water services throughout the planning area.

7.5. Implementation Schedule

March 1999 – Public Hearing/Dedicated Revenue Hearing and submit facilities plan to FDEP and other governmental agencies.

August 1999 – Publication of the Department's environmental information document in the Florida Administrative Weekly.

September 1999 – End of 30-day comment period for the environmental information document and approval of planning documents. Submit plans and specifications to the FDEP (Tallahassee) and submit construction permit application to the FDEP (District Office).

August 1999 – Notice of intent to permit construction of South Marion County Regional Water System issued and added to the priority list.

August 1999 – Submit request for addition of the South Marion County Regional Water System to the FDEP's project priority list.

October 1999 – Hearing to add the South Marion County Regional Water System to the Fundable portion of the priority list.

November 2000 – Sign SRF loan agreement.

December 2001 – Advertise for bids.

January 2002 – Open construction bids.

February 2002 – Award contracts.

March 2002 – Start South Marion County Regional Water System construction.

March 2002 – Complete construction of the South Marion County Regional Water System.

September 2002 – Begin SRF loan repayments to the FDEP.

December 2002 – Certify operational performance of the South Marion County Regional Water System and close out project.

7.6. Compliance

1. The treated water from the selected alternative will be in compliance with the FDEP drinking water standards.
2. The selected alternative will meet the reliability requirements as per chapter 62-550, F.A.C.
3. The environmental aspects of the proposed facilities are satisfactory.
4. The recommended facilities are consistent with Marion County's comprehensive plan.

Appendix A

Cost Information of the Selected Alternative

Cost Information of the Selected Alternative

Construction Costs

The following opinion of costs is based upon recent contractor bids for similar work:

Description	Quantity	Units	Unit Costs	Amount	Total
Water Supply:					
Drill 10 inch well	540	L.F.	$20.00	$10,800	} 30 YR
10 inch casing pipe	400	L.F.	$25.00	$10,000	
Grouting	60	bags	$15.00	$900	
Permitting	1	each	$500.00	$500	
Pump	2	each	$15,000	$30,000	} 15 YR
Magnetic Starter	2	each	$2,500	$5,000	
Drop pipe	250	L.F.	$12.50	$3,125	-30 YR
Insulated Wire	280	L.F.	$7.50	$2,100	-15 YR
Testing	2	each	$3,500	$7,000	
Miscellaneous	2	lump sum	$2,500	$5,000	
					$74,425
Water Treatment					
Disinfection system	1	each	$10,000	$10,000	} 15 YR
Safety equipment	1	each	$5,000	$5,000	
Instrumentation	1	each	$3,500	$3,500	
					$18,500
Water Storage					
Elevated Tank	1	each	$510,000	$510,000	} 50 YR
Valve and pipe gallery	1	each	$15,000	$15,000	
					$525,000
Water Distribution					
6" pipe	3,183	L.F.	$7.00	$22,281	
8" pipe	15,048	L.F.	$9.00	$135,432	
10" pipe	31,499	L.F.	$12.00	$377,988	
Air Release Valve	26	each	$2,500	$65,000	
Fire Hydrant Assembly	49	each	$1,750	$85,750	
18" Jack & Bore	413	L.F.	$110.00	$45,430	
20" Jack & Bore	919	L.F.	$115.00	$105,685	
24" Jack & Bore	399	L.F.	$120.00	$47,880	50 YR
Asphalt Pavement	1,010	L.F.	$15.00	$15,150	
Concrete Pavement	463	L.F.	$25.00	$11,575	
Concrete Encasement	1,084	L.F.	$14.00	$15,176	
6" Valves	5	each	$550.00	$2,750	
8" Valves	16	each	$750.00	$12,000	
10" Valves	36	each	$1,250	$45,000	
Fittings	20,000	lbs.	$1.25	$25,000	
2" Blow off	5	each	$100.00	$500	
					$1,012,597
			Construction	Costs Total	$1,630,522

Other Costs

Other costs are estimated as follows:

Legal, Accounting & Misc.	$4,961	
Surveying	$28,000	
Geotechnical Engineering	$5,000	
Engineering		
Design Services	$84,500	
Inspection Services	$46,305	
		$164,966
Permitting		
SJRWMD Permit	$1,000	
FDEP Permit	$6,500	
M C Permit	$500	
		$8,000
Emergency Generator		$40,000
	SUBTOTAL	$1,843,488
Contingency	$171,851	
		$171,851
TOTAL PROJECT COSTS		**$2,015,339**

Annual O&M Costs

Chemical and Supplies	$15,000
Purchased Power	$12,000
Miscellaneous Expense	$19,000
Total	$46,000

Present Worth of Annual O & M Costs= $46,000 x (10.69773) ≈ $492,000

Value Remaining at End of Planning Period

Water Supply/Well:	$23,925 x (30-20)/30 ≈	$8,000
Water treatment:		$0
Water Storage:	$525,000 x (50-20)/50 ≈	$315,000
Water Distribution:	$1,012,597 x (50-20)/50 ≈	$607,558
Total Remaining Value:		$930,558

Present Worth of Remaining Value = $930,558 x 0.26453 ≈ $246,161
Total Present Worth = $2,015,339 + $492,000 - $246,161 = $2,261,178

Appendix B

Capital Financing Plan

CAPITAL FINANCING PLAN WORKSHEETS

Sunshine Utilities of Central Florida, Inc.
Project Sponsoring Agency (DWSRF Project Sponsor)

James Hodges, Sr., President
Authorized Representative and Title

10320 East Highway 25
Street Address or Other Mailing Address

Belleview, Florida 34420
City, State, and Zip Code

Pam Christmas, Office Manager, 352-347-8228
Capital Financing Plan Contact, Title, and Telephone Number

10320 East Highway 25
Street Address or Other Mailing Address

Belleview, Florida 34420
City, State, and Zip Code

The Department needs to know about the financial capabilities of potential Drinking Water State Revolving Fund (DWSRF) loan applicants. Therefore, a financial capability demonstration (and certification) is required well before the evaluation of the actual loan application. Please see Rule 62-552(5) in Chapter 62-552, F.A.C. for further details.

It is expected that the revenues to be dedicated to repaying the loan will be generated either from water and sewer utility operations or from water utility operations alone. If the source of revenues will not be from such enterprises, this set of worksheets alone will not satisfy the Department's needs. (Please contact the Department for further guidance if dedicated revenues will be generated externally to such utilities.)

This form solicits information for the next five years. Ordinarily, the five-year time frame will cover the period of interest to the Department; but, it will be necessary to provide additional yearly information until the reported data includes at least one full year of DWSRF project operation and one annual DWSRF repayment to the Department. Accordingly, attachments may be made to these worksheets. Please use the format established herein when preparing attachments. The worksheets have been developed to identify the minimum information needed. The completed worksheets should be used in disclosing DWSRF project financing to the public during the required dedicated revenue hearing. The worksheets can serve to identify the impacts of the SRF project on residential users and how the project fits into the project sponsor's overall capital improvement program for the water and sewer utility (or water utility, as appropriate). Supplemental capital financing documentation may be submitted with these worksheets and may be presented at the required dedicated revenue hearing.

Household median annual income, average size, number in the utility service area, and population to be served (Population to be served is determined by the number of households multiplied by the household size This data is to be consistent with facilities planning projections) If the data vary by district or zone, report the data according to district or zone on an attachment.
Note Indicate the actual fiscal years for Year 1 - Year 5 wherever they appear in the worksheets.

		Year 1	Year 2	Year 3	Year 4	Year 5
1	Fiscal Year	1998	1999	2000	2001	2002
2	Household income ($/year)	26,400				
3	Household size (people/household)	2.18				
4.	Number of households	744	770	797	825	854
5.	Serviced population (people)	1,622	1,679	1,737	1,799	1,862

The revenues being dedicated to repayment of the DWSRF loan are:
Water user fees

What projects (including the DWSRF project) will be financed from the operation of the utility generating the revenues to be dedicated to repaying the DWSRF loan? Total annual cost is the sum of annualized capital costs plus the annual operation, maintenance, and replacement (O/M & R) costs. Note that wastewater facilities information is to be identified only if the dedicated revenues will be generated from operations of a water and sewer utility.

	Facilities Description	Construction Start Dates (Month/Year)	Capital Costs ($)	Annualized Capital Costs ($)	Annual Cost to Operate, Maintain, and Replace ($)	Total Annual Costs ($)
1.	Water supply wells	12/15/99				
2.	Water treatment plant	12/15/99				
			2,063,000	139,051	106,585	245,636
3.	Water transmission systems	12/15/99				
4.	Water storage facilities	12/15/99				
5	Loan Service Fee				0	
	Total		$2,063,00	$139,051	$106,585	$245,636

Identify which of the above water facilities are to be financed with the DWSRF loan and combine (as appropriate) the associated costs.

Description Water Supply Wells, Water Treatment Plant, Water Transmission and Water Storage Total Capital Cost $2,063,000

Total Annualized Capital Costs $139,051 Total Annual Costs for O/M&R $106,585 Total Annual Cost $245,636

D. Identify the DWSRF loan amount scheduled, or to be scheduled, on the project priority list; the interest rate established for the quarter preceding the submittal of the CFP, annual debt service, and expected pledged revenue coverage. Note that DWSRF repayments begin six months after the estimated construction completion (It is recognized that the information provided is best estimates only.)

DWSRF Loan Amount $ $2,063,000 interest rate 3.03 % annual debt service $ $139,051

loan repayment reserve $ $60,065 pledged revenue coverage factor 1.15 semi-annual repayments begin 6/30/2001 (Date);

Annual debt including coverage $159,910.

E. Identify other anticipated debt, which will be repaid from operations of the utility providing the dedicated revenues. None.

Description/Fiscal Year	Debt Amount($)	Annual Interest Rate(%)	Revenue Coverage Rate(%)	Annual Debt Service($) Year 1	Year 2	Year 3	Year 4	Year 5
1.								
2.								
3.								
4.								

F. What is the existing debt for the utility providing the DWSRF dedicated revenues?

Description/Fiscal Year	Current Amount($)	D	Annual Interest Rate(%)	Revenue Coverage Rate(%)	Annual Debt Service($) Year 1	Year 2	Year 3	Year 4	Year 5
1. Commercial Loan	$60,000		8.25	%	$13,401.12	$13,401.12	$13,401.12	$13,401.12	$13,401.12
2. Vehicle Loan	$33,000		9	%	$13,249.68	$13,249.68	$13,249.68	$4,417.11	
3									
4.									
5.									
6.									
Totals ($)	$93,000				$26,650.80	$26,650.80	$26,650.80	$17,818.23	$13,401.12

i Identify the projected annual expenses for the utility providing DWSRF dedicated revenues.

1 Existing facilities

Fiscal Year		FY (98)	FY (99)	FY (00)	FY (01)	FY (02)
OM&R ($)		$100,313	$100,313	$	$	$
Debt Service ($)		$26,651	$26,651	$26,651	$17,818	$13,401
Other describe	($)	$0	$0	$0	$0	$0
Totals	($)	$126,964	$126,964	$26,651	$17,818	$13,401

2. DWSRF proposed project(s)

Fiscal Year		FY (98)	FY (99)	FY (00)	FY (01)	FY (02)
OM&R ($)		$	$	$106,585	$110,316*	$114,177*
Debt Service ($) (includes 15% coverage)		$	$	$	$159,910	$159,910
Other describe	($)	$0	$0	$0	$0	$0
Totals	($)	$0	$0	$106,585	$270,226	$274,087

3. Non-DWSRF proposed project(s) (if any) N/A

Fiscal Year		FY ( )	FY ( )	FY ( )	FY ( )	FY ( )
OM&R ($)						
Debt Service ($)						
Other - describe	($)					
Totals	($)					

4. All existing and planned facilities (sum of Items 1, 2, & 3, above) (Existing Facilities not included because they are removed from service)

Fiscal Year		FY (98)	FY (99)	FY (00)	FY (01)	FY (02)
OM&R ($)		$100,313	$100,313	$106,585	$110,316	$114,177
Debt Service ($)		$26,651	$26,651	$26,651	$177,728	$176,441
Other describe	($)	$0	$0	$0	$0	$0
Totals	($)	$126,964	$126,964	$133,236	$288,044	$287,488

Assume an increase of 3.5% per year.

H. Identify the projected annual utility revenues assuming all the planned projects are constructed according to the schedule reported in Item C, above. Compare revenues to expenses identified in Sub-item G.4, above, and explain (on an attachment) how any net loss is covered to keep the utility financially self-sufficient in each deficit year.

Fiscal Year		FY (98)	FY (99)	FY (00)	FY (01)	FY (02)
Operating ($)		$194,362	$201,155*	$208,208*	$231,687*	$239,831*
Non-operating ($)						
Other describe	($)					
Totals	($)	$194,362	$201,155	$208,208	$231,687	$239,831

I. Identify the projected annual expenses for the water system, assuming all planned water facilities will be constructed. These entries may be skipped if a water utility alone is providing the DWSRF dedicated revenues since the information already will have been presented in Sub item G.4, above. N/A

Fiscal Year		FY ( )	FY ( )	FY ( )	FY ( )	FY ( )
OM&R ($)						
Debt Service ($)						
Other - describe	($)					
Totals	($)					

J. Identify the projected annual revenues for the water system, assuming all planned water facilities will be constructed. Compare revenues to expenses identified in Item I, above, and explain (on an attachment) how any net loss is covered to keep the water system financially self-sufficient in each deficit year. These entries may be skipped if a water utility alone is providing the DWSRF dedicated revenues since the information already will have been presented in Item H, above. N/A

Fiscal Year		FY ( )	FY ( )	FY ( )	FY ( )	FY ( )
Operating ($)						
Non-operating ($)						
Other describe	($)					
Totals	($)					

* Estimated 3.5 percent annual increase in customer base and 7.5 percent increase in rate base in the year 2001.

K. Identify the average water system charge, fees, and assessments. If the utility service area encompasses districts or zones which will be subject to different service charges, fees, etc. attributable to the DWSRF project, it will be necessary to provide the relevant data below separately for the district(s) or zone(s). Difference in charges, fees, etc. should be explained on the attachment used to present the water system data.

Description

Fiscal Year/Description	FY (98)	FY (99)	FY (00)	FY (01)	FY (02)
1. Water System data					
a. Total estimated annual water system costs	$126,964	$126,964	$133,236	$288,044	$287,488
b. Non-residential share of total annual water system costs	$0	$0	$0	$0	$0
c. Residential share of total annual water system costs	$126,964	$126,964	$133,236	$288,044	$287,488
d. Number of households	744	770	797	825	854
e. Average residential system charge /per month/customer $	$14.22	$13.74	$13.93	$29.10	$28.05
2. Average connection fee per residential unit	$491	$491	$491	$491	$491
3. Average impact fee per residential unit	$0	$0	$0	$0	$0
4. Average special assessment per residential unit (identify basis below)	N/A	N/A	N/A	N/A	N/A
5. Average capacity charge per residential unit (identify basis below)	N/A	N/A	N/A	N/A	N/A
6. Other (describe)					
7. DWSRF project capital cost per household (from Item C divided by Item K.1.d)	$2,773	$2,679	$2,588	$2,500	$2,416

Describe basis for special assessments, such as cost per lot length: N/A

Describe basis for capacity charge, such as cost per volume per day: N/A

L. Which, if any, of the following activities must be undertaken to implement the DWSRF project?

1. Acquire privately held land?	YES		NO	X
2. Acquire land held by another public water system entity?	YES		NO	X
3. Enter into inter-local or inter-project sponsoring agency's agreements?	YES		NO	X
4. Hold an election or public referendum?	YES		NO	X
5. Comply with special assessment or similar procedural requirements?	YES		NO	X

M. Attach a certification by the project sponsor's chief financial officer or by an official authorized to commit to the SRF funding that the project sponsor has the financial capability to ensure adequate construction, operation, and maintenance of the water system.

February 11, 1999

Mr. Don Berryhill, P.E., Chief
Bureau of Water Facilities Funding
Department of Environmental Protection
2600 Blair Stone Road, MS 3505
Tallahassee, Florida 32399-2400

Re: DW4200 020 - Sunshine Utilities of Central Florida
Treatment, Storage and Distribution

Dear Mr. Berryhill:

This is to provide you with a certification that I have reviewed the Sunshine Utilities of Central Florida financial planning information (including the capital financing plan worksheets attached hereto), as it pertains to implementing the project for which a Drinking Water State Revolving Fund (DWSRF) loan application will be made to the Department.

I have found that Sunshine Utilities of Central Florida currently has the financial capability to ensure adequate construction, operation, and maintenance of the DWSRF project. This certification is made with full consideration given to other planned projects that will be financed from the revenues to be dedicated to repaying the DWSRF loan.

Sincerely,

James Hodges, Sr.

Attachment (worksheets)

Appendix C

User Rate System

User Rate System

I. INTRODUCTION

Sunshine Utilities of Central Florida, Inc. proposes to construct a 2.2 MGD water supply, treatment and storage facility. The user rate presented here is designed to equitably distribute to all users the operation, maintenance, replacement and debt service costs of the water systems operated in Marion County by Sunshine Utilities of Central Florida, Inc.. The information presented here should be considered to be preliminary as it is based on estimated O & M costs. After the new water system facilities have been operated for a period of one year, it is recommended that the system is re-examined in the light of actual expenditures and the rates revised as required.

II. THE SYSTEM RATE

The charges that will be assessed each user will reflect the actual cost incurred in order to serve that user. Those costs can be classified under two categories: (1) readiness to serve costs (fixed cost) and (2) costs for treating the water and operating and maintaining the system.

In order to determine the costs associated with each of the above listed categories, it was first necessary to prepare a proposed budget for the system (Table 2). Next, it was necessary to separate operation, maintenance and replacement costs into fixed and variable costs (Table 3). Fixed costs are equated with readiness to serve costs (i.e., costs that will be incurred regardless of the volume of water used). Variable costs are those that depend on actual volume of water used.

Table 4 shows the methodology of how the user rate per month per customer is calculated.

Table 2: Proposed Budget

COST CATEGORY	PRESENT	INCREASE/DECREASE OF BUDGET DUE TO PROPOSED PROJECT.	TOTAL*
Personnel	$343,767	$ 0	$343,767
Chemicals & supplies	$ 65,097	$ (1,221)	$ 63,876
Purchased Power	$ 41,674	$ 673	$ 42,347
Miscellaneous	$208,435	$ 4,332	$212,767
Sub-total	$658,973	$ 3,784	$662,757
Debt payment (Existing plus DWSRF loan including debt coverage)	$ 26,651	$163,040	$189,691
Total annual cost	$685,624	$166,824	$852,448

Table 3: Budget Cost Breakdown

COST CATEGORY	FIXED	VARIABLE	TOTAL
Personnel	$	$343,767	$343,767
Chemicals & supplies	--	$ 63,876	$ 63,876
Purchased Power	--	$ 42,347	$ 42,347
Miscellaneous (Audit, etc.)	$ 6,170	$206,597	$212,767
Sub-Total	$ 6,170	$656,587	$662,757
Debt payment (Existing plus DWSRF including debt coverage)	$189,691	$ 0	$189,691
Total	$195,861	$656,587	$852,448

Table 4: Water User Rate

Methodology for calculating the user rate:

User Rate = $\frac{\text{Fixed Cost } (C_f)}{\text{No. of Customers}} + \frac{\text{Variable Cost } (C_v)}{\text{Total Water Consumption}} \times$ (Water Consumption of Individual Customer)

Fixed Cost (C_f) = $195.861 year or $16.322 month

Variable Cost (C_v) = $659.075/year

No. of Customers (all categories) = 3.066 (year 2002)

Annual Water Usage = 261,444,785 gallons (year 2002)

Therefore, user rate = $\frac{\$16.322/\text{month}}{3.066 \text{ users}} + \frac{\$659.075/\text{year}}{261,444,785 \text{ gallons/year}} \times$ (7.061 gallons Monthly Water Consumption of Individual Customer)

= $5.32 + ($2.52/1,000 gals.) x 7.061 gallons (Customer monthly usage)

Assuming average monthly water consumption by individual customer as 7.061 gallons,

User rate per customer = $5.32 + $ 17.79 = **$ 23.11/month/customer.**

Current user rate = $ 7.90 + ($ 1.93/1,000 gallons) x 7.061 gallons
= $ 7.90 + $14.63
= $21.53/month/customer

→ $23.11 - $21.53 = $1.58/month/customer needed

The above calculation demonstrated that the current water system rate is not adequate to cover the DWSRF loan debt including coverage and the operation, maintenance and replacement costs for the project. Therefore, the current user rate must be increased for the system to be self supporting.

DRAFT RATE RESOLUTION NO. ——

A resolution establishing system rates for Sunshine Utilities of Central Florida, Inc. to provide funds needed to pay for operation and maintenance expenses associated with Sunshine Utilities of Central Florida, Inc.'s water system.

WHEREAS, Sunshine Utilities of Central Florida, Inc., has constructed improvements to the water system; and

WHEREAS, it is Sunshine Utilities of Central Florida, Inc. intent to establish proportionate system rates that place the costs of conserving potable water and maintaining financial self-sufficiency, and

WHEREAS, Sunshine Utilities of Central Florida, Inc. must pay the operation and maintenance expenses associated with the said water system and charge the users of said water system accordingly;

NOW, THEREFORE, BE IT ORDAINED BY THE Board of Directors of Sunshine Utilities of Central Florida, Inc., that the following system rates are established.

ARTICLE I

It is determined and declared to be necessary and conducive to the protection of the public health, safety welfare and convenience of the citizen served by Sunshine Utilities of Central Florida, Inc. to collect charges from all users who is served by Sunshine Utilities of Central Florida, Inc. water system. The proceeds of such charges so derived will be used for the purpose of operating and maintaining the public water system.

ARTICLE II

Unless the context specifically indicates otherwise, the meaning of terms used in this resolution shall be as follows:

Section 1: "Casing" shall mean the tubular material used to shut off or exclude a stratum or strata other than the source bed and conduct water from only the source bed to the surface.

Section 2: "Commercial User" shall mean all retail stores, restaurants, office buildings, laundries, and other private business and service establishments.

Section 3: "Community Water System" shall mean a public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

Section 4: "Contaminant" shall mean any physical, chemical, biological or radiological substance or matter in water.

Section 5: "Cross-connection" shall mean any physical arrangement whereby a public water supply is connected, directly or indirectly, with any other water supply system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture, or other device which contains or may contain contaminated water, sewage or other waste, or liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water supply as the result of backflow.

Section 6: "Disinfection" shall mean a process that inactivates pathogenic organisms in water by chemical oxidants or equivalent agents.

Section 7: "Industrial User" shall mean any non-governmental, non-residential user of the water system which is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented, under the following divisions: Division A-Agriculture, Forestry, and Fishing; Division B-Mining; Division D-Manufacturing; Division E-Transportation, Communications, Electric, Gas and Sanitary; and Division I-Services.

Section 8: "Institutional User" shall mean any social, charitable, religious, and educational activities such as schools, churches, hospitals, nursing homes, penal institutions and similar institutional users.

Section 9: "Governmental User" shall mean legislative, judicial, administrative, and regulatory activities of Federal, State and local governments user of the water system.

Section 10: "Maximum Contaminant Level (MCL)" shall mean the maximum permissible level of a contaminant in water which is delivered to any user of a public water system.

Section 11: "Non-Community Water System" shall mean a public water system which provides piped water for human consumption to at least 15 service connections or which serves at least 25 individuals at least 60 days out of the year but which is not a community water system.

Section 12: "Non-Transient Non-Community Water System" shall mean a public water system that is not a community water system and that regularly serves at least 25 of the same persons over 6 months per year.

Section 13: "Operation and Maintenance" shall mean those functions that result in expenditures during the useful life of the water system for materials, labor, utilities and other items which are necessary for managing and which such system was designed and constructed.

Section 14: "PPM" shall mean parts per million by weight and is equivalent to milligrams per liter.

Section 15: "Person" shall mean an individual, public or private corporation, company, association, partnership, municipality, agency of the State, district, Federal agency, or any other legal entity, or its legal representative, agent, or assigns.

Section 16: "Pollution" shall mean the presence of any foreign substance (organic, inorganic, radiological, biological or thermal) in water that tends to degrade its quality so as to constitute a hazard or impair the usefulness of the water.

Section 17: "Potable Water" shall mean water that is satisfactory for drinking, culinary and domestic purposes meeting the quality standards defined in Chapter 62-550, F.A.C.

Section 18: "Public Water System" shall mean a system that provides piped water to the public for human consumption, if it has at least 15 service connections or regularly serves at least 25 individuals daily at least 60 days out of the year.

Section 19 "Replacement" shall mean expenditures for obtaining and installing equipment, accessories or appurtenances which are necessary during the useful life of the system to maintain the capacity and performance for which such system was designed and constructed.

Section 20: "Residential User" shall mean any user to the water system whose lot, parcel or real estate, or building is used for domestic dwelling purposes only.

Section 21: "Right-of Way" shall mean a strip of ground dedicated by sub-divider, or deeded by the owner, for public use.

Section 22: "Sanitary Sewer" shall mean a conduit that is a part of a gravity or pressurized force main system which receives and transports wastewater for treatment and disposal.

Section 23: "Storm Sewer" shall mean any conduit that is designed to carry storm water.

Section 24: "System Rate" shall mean that portion of the water service charge which is levied in a proportional and adequate manner for the cost of operation, maintenance and replacement of the water system.

Section 25: "Useful Life" shall mean the estimated period during which a water system will be operated.

Section 26: "Virus" shall mean a virus of fecal origin that is infectious to humans by waterborne transmission.

Section 27: "Water Meter" shall mean a water volume measuring and recording device, furnished and or installed by a user and approved by Sunshine Utilities of Central Florida, Inc..

Section 28: "Well" shall mean any excavation that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed when the intended use of such excavation is to conduct ground water from a source bed to the surface, by pumping or natural flow, when ground water from such excavation is used or is to be used for a public water supply system.

ARTICLE III

Section 1: The revenues collected, as a result of the user system rates levied, shall be deposited in a separate non-lapsing fund known as the Operation, Maintenance and Replacement Fund.

Section 2: Fiscal year-end balances in the operation, maintenance and replacement fund shall be used for no other purposes than those designated. Monies that have been transferred from other sources to meet temporary shortages in the operation, maintenance and replacement fund shall be returned to their respective accounts upon appropriate adjustment of the user system rates for operation, maintenance and replacement. The user system rate(s) shall be adjusted such that the transferred monies will be returned to their respective accounts within six months of the fiscal year in which the monies were borrowed.

ARTICLE IV

Section 1: Each user shall pay for the services provided by Sunshine Utilities of Central Florida, Inc. based on his/her use of the water system as determined by water meter readings (or other appropriate methods) acceptable to Sunshine Utilities of Central Florida, Inc.

Section 2: For residential, industrial, institutional and commercial users, monthly user system rates will be based on actual water usage.

Section 3: Each user shall pay a user system rate for operation and maintenance including replacement of $2.52 per 1,000 gallons of water plus $5.32 per month.

Section 4: The user system rates established in this article apply to all users of Sunshine Utilities of Central Florida, Inc. water system.

ARTICLE V

Section 1: All users shall be billed monthly. Billings for any particular month shall be made within ten days after the end of the month. Payments are due within twenty days after the end of the month. Any payment not received within thirty days after the end of the month shall be delinquent.

Section 2: A late payment penalty of 1 percent of the user system rate bill will be added to each delinquent bill for each thirty days or portion thereof of delinquency. When any bill is more than ninety days in default, water service to such premise shall be discontinued until such bill is paid.

ARTICLE VI

Section 1: Any user who feels his/her user system rate is unjust and inequitable may make written application to Sunshine Utilities of Central Florida, Inc. Office Manager requesting a review of his/her user system rate. Said written request shall, where necessary, show the actual or estimated water consumption in comparison with the values upon which the charge is based, including how the measurements or estimates were made.

Section 2: Review of the request shall be made by the Office Manager and if substantiated, the system rate for that user shall be recomputed based on revised water consumption and the new system rate shall be applicable to the next billing cycle/period.

ARTICLE VII

Section 1: The Board of Directors of Sunshine Utilities of Central Florida, Inc. will review the user system rates at least annually and revise the rates as necessary to ensure that adequate revenues are generated to pay the costs of operation and maintenance including replacement and that the system continues to provide for the proportional distribution of operation and maintenance including replacement costs among users and user classes.

Section 2: The Board of Directors of Sunshine Utilities of Central Florida, Inc. will notify each user at least annually of the rate being charged for operation, maintenance including replacement of the water system.

ARTICLE IX

This resolution shall take effect upon its final passage and adoption by the Board of Directors at its second reading.

Passed and approved on First reading this ------- day of --------.

Passed and approved on Second and Final reading this ------ day of --------.

APPROVED

_____
Director

_____
Director

_____
Director

ATTEST

_____

Appendix D

Corporate Resolution

CORPORATE RESOLUTION
OF
SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC.

WHEREAS, pursuant to waiver of notice by all of the undersigned, the Shareholder and Board of Directors of this corporation held a Special Meeting among and between themselves on the 31ST day of August, 1999, and

WHEREAS, on roll call of the directors and Shareholders, the undersigned, being all of the Directors and Shareholders of this corporation, were found to constitute quorum of the Directors and Shareholders of this corporation, and,

WHEREAS, the President presided at the meeting, and,

WHEREAS, there was presented to the Shareholders and Directors the following proposal:

The corporation plans the following improvements:

A) Consolidate existing water systems in the project area into a single water system served by one water system, treatment and storage system.

B) To consolidate these systems, a new water supply and treatment facility will be required as a network of new water mains installed to the areas currently served by five existing systems.

C) To request the State Revolving Fund approve the request for a grant/loan for funding the above stated improvements.

NOW, THEREFORE, IT IS RESOLVED AS FOLLOWS:

1) The Board of Directors of Sunshine Utilities of Central Florida, Inc., hereby adopts the Water Facility Plan and approves that the supplemental pages and the revised

Capitol Financing Plan be forwarded to the Florida Department of Environmental Protection, Bureau of Water Facilities Funding for a grant/loan for water system improvements.

DATED this 31st day of August, 1999

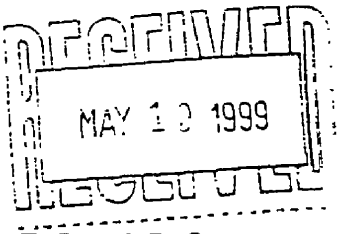
JAMES HODGES, President

CLARISE HODGES Vice-President

JAMES HODGES, JR. Secretary/Treasurer

Appendix E

State Clearinghouse Letter and Agency Comments



STATE OF FLORIDA

DEPARTMENT OF COMMUNITY AFFAIRS

"Helping Floridians create safe, vibrant, sustainable communities"

JEB BUSH
Governor

STEVEN M. SEIBERT
Secretary

Docket No. 992015-WU
Exhibit ___ (HWB-4)
Page 63 of 115

May 13, 1999

Mr. Harold W. Barrineau
H. W. Barrineau and Associates, Inc.
Civil Environmental Engineers & Planners
2100 S.E. 17th Street, Suite 802
Ocala, Florida 34471

RE: Environmental Protection Agency - Construction Grants for Wastewater Treatment Works - 201 Facilities Plan - State Revolving Fund Loan - Sunshine Utilities of Central Florida, Inc. - Marion County, Florida
SAI: FL9904050210C

Dear Mr. Barrineau:

The Florida State Clearinghouse, pursuant to Presidential Executive Order 12372, Gubernatorial Executive Order 95-359, the Coastal Zone Management Act, 16 U.S.C. §§ 1451-1464, as amended, and the National Environmental Policy Act, 42 U.S.C. §§ 4321, 4331-4335, 4341-4347, as amended, has coordinated a review of the above-referenced project.

Based on the information contained in the application and the enclosed comments provided by our reviewing agencies, the state has determined that the allocation of federal funds for the above-referenced project is consistent with the Florida Coastal Management Program.

In addition, the Withlacoochee Regional Planning Council (WRPC) has identified the policies of its Strategic Regional Policy Plan which may apply to the proposed activity. The comments provided by the WRPC are enclosed for your review and consideration.

Enclosed are all comments received to date from the reviewing agencies. Comments subsequently received by the State Clearinghouse will be forwarded for your review.

2555 SHUMARD OAK BOULEVARD • TALLAHASSEE, FLORIDA 32399-2100
Phone: (850) 488-8466/Suncom 278-8466 FAX: (850) 921-0781/Suncom 291-0781
Internet address: http://www.state.fl.us/comaff/

FLORIDA KEYS
Area of Critical State Concern Field Office
2796 Overseas Highway, Suite 212
Marathon, Florida 33050-2227

GREEN SWAMP
Area of Critical State Concern Field Office
205 East Main Street, Suite 104
Bartow, Florida 33830-4641

Please attach a copy of this letter and any enclosures to your application facesheet or cover form and forward to the federal funding agency. (If applicable, enter the State Application Identifier (SAI) number, shown above, in box 3A of Standard Form 424 or where appropriate on other cover form.) This action will assure the federal agency of your compliance with Florida's review requirements and reduce the chance of unnecessary delays in processing your application.

If you have any questions regarding this letter, please contact Ms. Cherie Trainor, Clearinghouse Coordinator, at (850) 922-5438.

414-5495

Sincerely,

Ralph Cantral, Executive Director
Florida Coastal Management Program

RC/cc

Enclosures

cc: Vivian Whittier, Withlacoochee Regional Planning Council

COUNTY: Marion

DATE: 04/05/1999
COMMENTS DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210C

Message:

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
X Agriculture Community Affairs Environmental Protection Game and Fresh Water Fish Comm Health State Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evalutation and is categorized as one of the following:

_X_ Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.

___ Direct Federal Activity (15 CFR 930, Subpart C). Federal Agencies are required to furnish a consistency determination for the State's concurrence or objection.

___ Outer Continental Shelf Exploration, Development or Production Activities (15 CFR 930, Subpart E). Operators are required to provide a consistency certification for state concurrence/objection.

___ Federal Licensing or Permitting Activity (15 CFR 930, Subpart D). Such projects will only be evaluated for consistency when there is not an analogous state license or permit.

Project Description:

Environmental Protection Agency - State Revolving Fund Loan - 201 Facilities Plan - Sunshine Utilities of Central Florida, Inc. - Marion County, Florida.

To: Florida State Clearinghouse
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100
(850) 922-5438 (SC 292-5438)
(850) 414-0479 (FAX)

EO. 12372/NEPA
- ☑ No Comment
- ☐ Comments Attached
- ☐ Not Applicable

Federal Consistency
- ☑ No Comment/Consistent
- ☐ Consistent/Comments Attached
- ☐ Inconsistent/Comments Attached
- ☐ Not Applicable

From: Division of Forestry
Forest Resource Planning
& Support Services Bureau
3125 Conner Blvd., Mail Stop C23
Tallahassee, FL 32399-1650

Division/Bureau: _____

Reviewer: _____

Date: 4-20-99

COUNTY: Marion

DATE: 04/05/1999
COMMENTS DUE-3 WKS: 04/27/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210(

Message:

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs X Environmental Protection Game and Fresh Water Fish Comm Health State Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

Project # _____ Grantee _____ Step _____

File Folder _____

INITIAL & ROUTE						
	B.N.	Jun				
	LK	Jun T.				

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State of Florida Clearinghouse

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- ☐ Not Applicable

RECEIVED
APR 8 1999
Dept. Of Environmental Protection
Bureau of Water Facilities Funding

From:
Division/Bureau: Water Facilities / Water Facilities Funding
Reviewer: Jun U. Tabanguid, P.E.
Date: 4/9/99

COUNTY: Marion

Message:

Docket No. 992015-WU
Exhibit ___ (HWB-4)
Page 67 of 115

DATE: 04/05/1999
COMMENT DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210C

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs Environmental Protection X Game and Fresh Water Fish Comm Health State Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

RECEIVED BY GFC
APR 8 1999
OFFICE OF ENVIRONMENTAL SERVICES

RECEIVED
APR 14 1999
State of Florida Clearinghouse

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evalutation and is categorized as one of the following:

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EO. 12372/NEPA

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- [ ] Comments Attached
- [ ] Not Applicable

Federal Consistency

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- [ ] Consistent/Comments Attached
- [ ] Inconsistent/Comments Attached
- [ ] Not Applicable

From:

Division/Bureau: ENVIRONMENTAL SERVICES

Reviewer: BRIAN BARNETT

Date: 4/9/99

Mayer

COUNTY: Marion

DATE: 04/05/1999
COMMENTS DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210C

Message:

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs Environmental Protection Game and Fresh Water Fish Comm X Health State Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

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- ☐ Not Applicable

Federal Consistency

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- ☐ Consistent/Comments Attached
- ☐ Inconsistent/Comments Attached

RECEIVED
APR 08 1999

From:
Division/Bureau: HSEWOS
Reviewer: Linda L. Mayer
Date: 4-13-99

Bureau of Water and Onsite Sewage Programs

COUNTY: Marion

Message:

Docket No. 992015-WU
Exhibit ___ (HWB-4)
Page 69 of 115

DATE: 04/05/1999
COMMENTS DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210C

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs Environmental Protection Game and Fresh Water Fish Comm Health X State Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

Marion
SAI-EPA
9924678

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HISTORIC PRESERVATION

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State of Florida Clearinghouse

99 3628
9427

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evalutation and is categorized as one of the following:

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- [ ] Comments Attached
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Federal Consistency

- [x] No Comment/Consistent
- [ ] Consistent/Comments Attached
- [ ] Inconsistent/Comments Attached
- [ ] Not Applicable

From:

Division/Bureau: Division of Historical Resources

Reviewer: Laura A. Kammerer

Date: 4/30/99 5-3-99

TEL : Apr 20 99 15:40 No.003 P.02

COUNTY: Marion

Message:

DATE: 04/05/1999
COMMENTS DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210C

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs Environmental Protection Game and Fresh Water Fish Comm Health State X Transportation	Southwest Florida WMD St. Johns River WMD	Environmental Policy/C & ED

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evalutation and is categorized as one of the following:

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Tallahassee, FL 32399-2100
(850) 922-5438 (SC 292-5438)
(850) 414-0479 (FAX)

EO. 12372/NEPA

☑ No Comment
☐ Comments Attached
☐ Not Applicable

Federal Consistency

☐ No Comment/Consistent
☐ Consistent/Comments Attached
☐ Inconsistent/Comments Attached
☐ Not Applicable

From:

Division/Bureau: FLORIDA DEPARTMENT OF TRANSPORTATION

Reviewer: Richard Shine

Date: 4/20/99

Southwest Florida Water Management District

2379 Broad Street • Brooksville, Florida 34609-6899 • 1-800-423-1476 (Florida Only)
or (352) 796-7211 • SUNCOM 628-4150 • T.D.D. Number Only (Florida Only): 1-800-231-6103
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1-800-492-7862 or (941) 534-1448
SUNCOM 572-6200

115 Corporation Way
Venice, Florida 34292-3524
1-800-320-3503 or (941) 486-1212
SUNCOM 526-6900

3600 West Sovereign Path, Suite 226
Lecanto, Florida 34461-8070
(352) 527-8131
SUNCOM 667-1271

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Chairman, Bushnell
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Curtis L. Law
Land O'Lakes
Brenda Menendez
Tampa

E. D. "Sonny" Vergara
Executive Director
Gene A. Heath
Assistant Executive Director
Edward B. Helvenston
General Counsel

April 26, 1999

Cherie Trainor
Florida State Clearinghouse
Department Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

Subject: Environmental Protection Agency - State Revolving Fund Loan - 201 Facilities Plan - Sunshine Utilities of Central Florida, Inc. - Marion County
SAI#: FL9904050210C

Dear Ms. Trainor:

The staff of the Southwest Florida Water Management District has reviewed the materials for the above referenced project. Please note that the proposed project is located entirely within the St. Johns River Water Management District's jurisdiction, therefore, we have no comments at this time. If you have any questions or if I can be of further assistance, please contact me in the District's Planning Department at extension 4421.

Sincerely,

Joseph P. Quinn
Government Planning Coordinator

Excellence Through Quality Service

CC: Marion

DATE: 04/05/1999
COMMENTS DUE-2 WKS: 04/20/1999
CLEARANCE DUE DATE: 05/14/1999
SAI#: FL9904050210(

Message:

STATE AGENCIES	WATER MANAGEMENT DISTRICTS	OPB POLICY UNITS
Agriculture Community Affairs Environmental Protection Game and Fresh Water Fish Comm Health State Transportation	Southwest Florida WMD St. Johns River WMD	X Environmental Policy/C & ED

RECEIVED
APR 12 1999
State of Florida Clearinghouse

RECEIVED
APR 8 1999
OFFICE OF PLANNING & BUDGETING
ENVIRONMENTAL POLICY UNIT

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evalutation and is categorized as one of the following:

_X_ Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.

___ Direct Federal Activity (15 CFR 930, Subpart C). Federal Agencies are required to furnish a consistency determination for the State's concurrence or objection.

___ Outer Continental Shelf Exploration, Development or Production Activities (15 CFR 930, Subpart E). Operators are required to provide a consistency certification for state concurrence/objection.

___ Federal Licensing or Permitting Activity (15 CFR 930, Subpart D). Such projects will only be evaluated for consistency when there is not an analogous state license or permit.

Project Description:

Environmental Protection Agency - State Revolving Fund Loan - 201 Facilities Plan - Sunshine Utilities of Central Florida, Inc. - Marion County, Florida.

To: Florida State Clearinghouse
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100
(850) 922-5438 (SC 292-5438)
(850) 414-0479 (FAX)

EO. 12372/NEPA

- [x] No Comment
- [ ] Comments Attached
- [ ] Not Applicable

Federal Consistency

- [x] No Comment/Consistent
- [ ] Consistent/Comments Attached
- [ ] Inconsistent/Comments Attached
- [ ] Not Applicable

From:

Division/Bureau: EOG/OPB&EV

Reviewer: Paula L. Allen

Date: April 9, 1999

LINDA S. SLOAN, A.I.C.P.
EXECUTIVE DIRECTOR

1241 S.W. 10th Street
OCALA, FLORIDA 34474-2798

Telephone 352/732-1315
Suncom 667-1315
FAX 732-1319
email: wrpc@atlantic.net

April 29, 1999

WITHLACOOCHEE REGIONAL PLANNING COUNCIL
SERVING LEVY CITRUS MARION SUMTER AND HERNANDO COUNTIES

Ms. Cherie Trainor, Coordinator
Florida State Clearinghouse
Department of Community Affairs
2555 Shumard Oak Blvd.
Tallahassee, FL 32399-2100

SUBJECT: **SAI #: FL9904050210C**
EPA - State Revolving Loan Fund. 201 Facilities Plan
Sunshine Utilities of Central Florida, Inc.
Marion County
WRPC ICR #: 35-M10-99-DWSRF

Dear Ms. Trainor:

Pursuant to the provisions of Presidential Executive Order 12372, Governor's Executive Order 95-359, and WRPC Rules Ch. 29E-6, FAC, the staff of the Withlacoochee Regional Planning Council reviewed the above-noted project, which appears to be consistent with the goals and policies of the WRPC's adopted *Strategic Regional Policy Plan for the Withlacoochee Region*, and in particular with:

Policy 4.1.1: Provide infrastructure and approve development permits only for new developments that have identified a specific long-term supply of water that is both adequate for the increased population associated with the development and that will not diminish the ability to provide adequate water for the local government's projected population or the water needed by natural systems.

No response was received from Marion County.

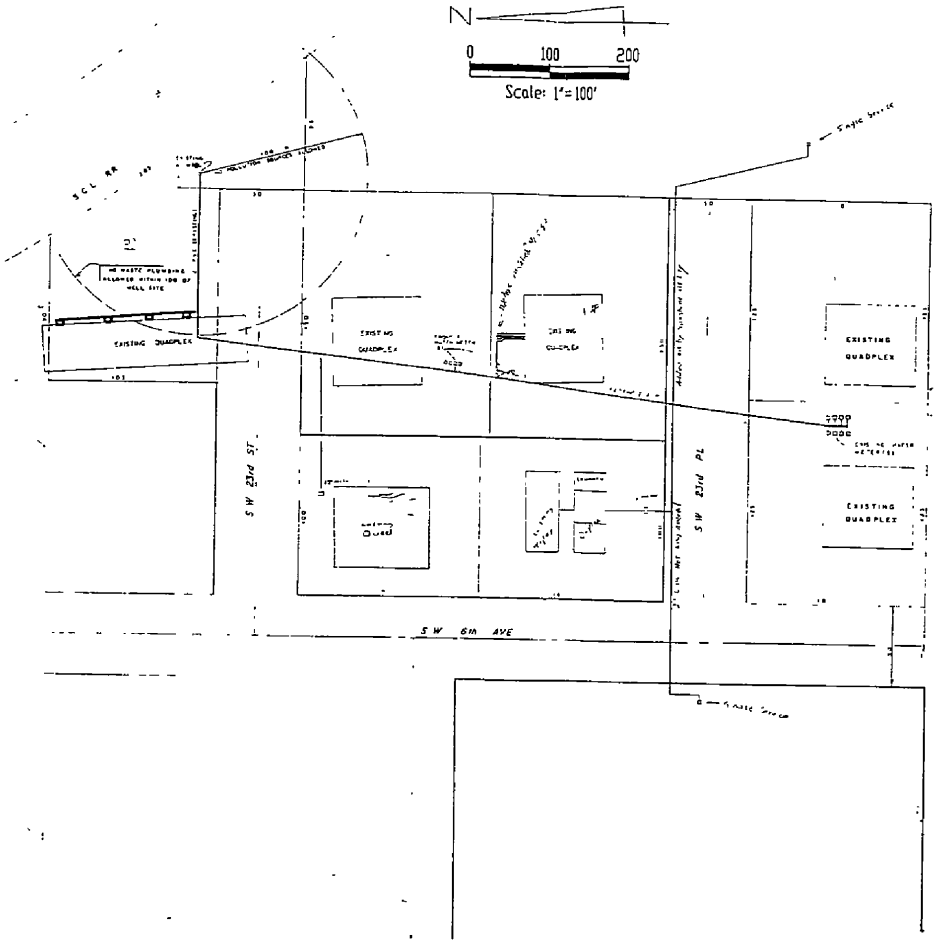
We appreciate the opportunity to comment on this proposal.

Sincerely,

Vivian A. Whittier
ICR Procedural Coordinator

LSS:vaw
Enc.

Exhibit A



THIS DRAWING IS A COPY OF AN ORIGINAL SIGNED BY
MOORHEAD ENGINEERING COMPANY

H. W. BARRINEAU & ASSOCIATES, INC.

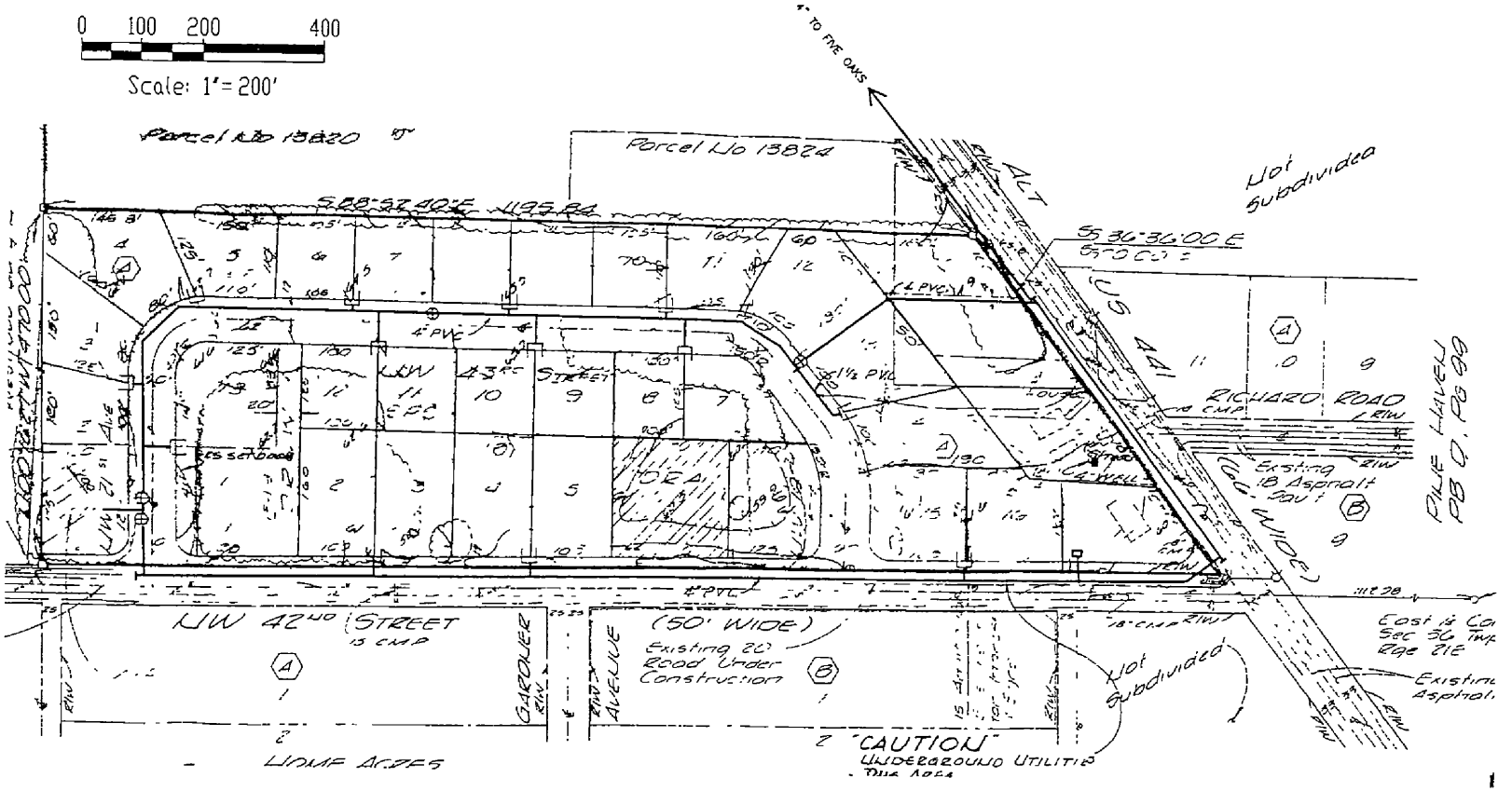
BURKS

SUNSHINE UTILITIES, INC.
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PKM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9639-02

1



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DONE BY:
CARBAUGH & ASSOCIATES
ENGINEERS & SURVEYORS

H. W. BARRINEAU & ASSOCIATES, INC.

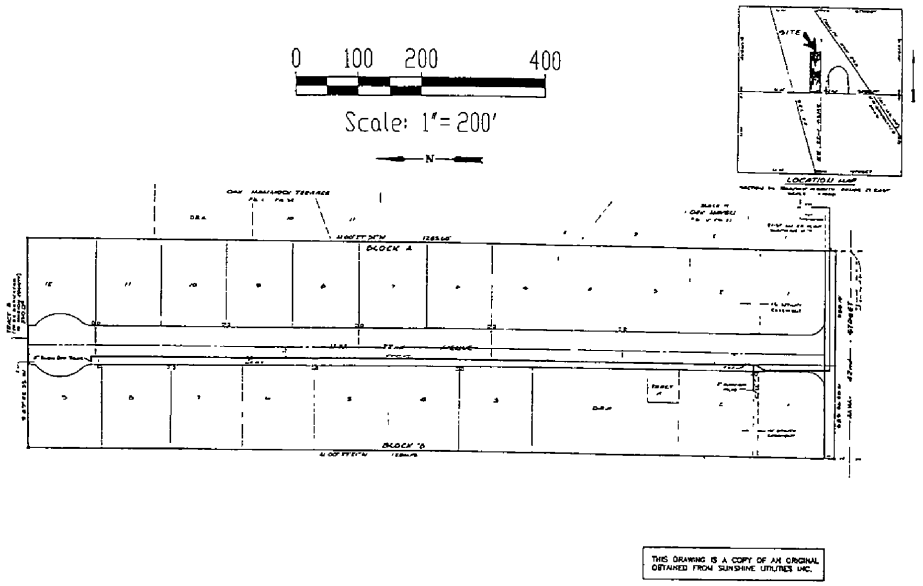
OAK HAVEN

SUNSHINE UTILITIES INC.
MARION COUNY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMH	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 96138-02

1



THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES INC.

H W Barbini & Associates Inc
Civil • Environmental Engineers & Planners
3000 SW 17th Street, Suite 302 Phone (352) 732-9274
Ocala, Florida 34474 Fax (352) 732-9565

NORTHSIDE VILLAS

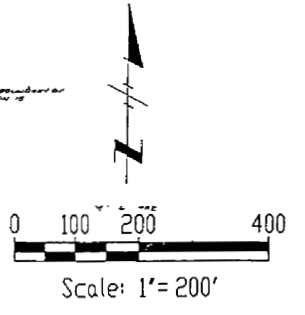
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



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H.W. Barrineau & Associates, Inc.

OCALA HEIGHTS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 96.39-02

0 100 200 400

Scale: 1" = 200'

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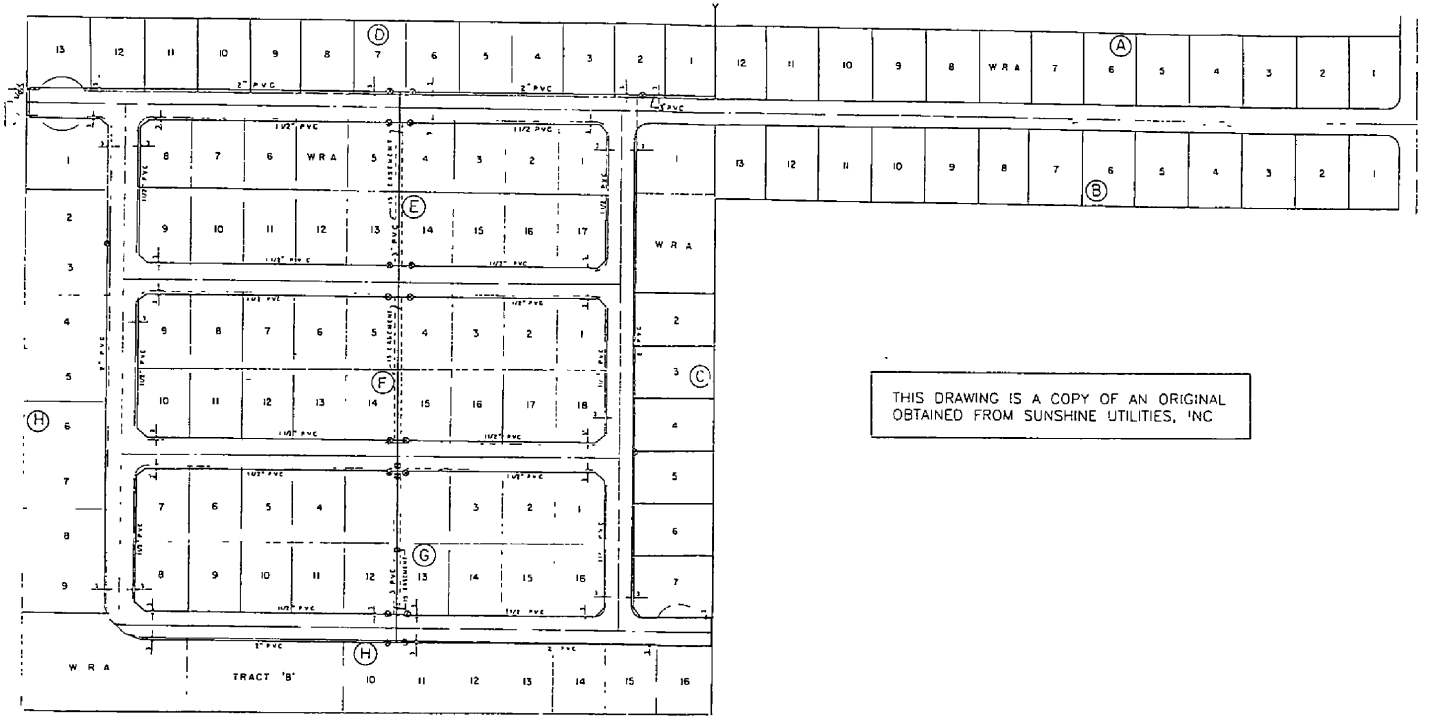
FEED FROM OCALA HEIGHTS



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Civil • Environmental Engineers & Planners
Phone (352) 369-9771
Fax (352) 369-9955

REYNOLD'S

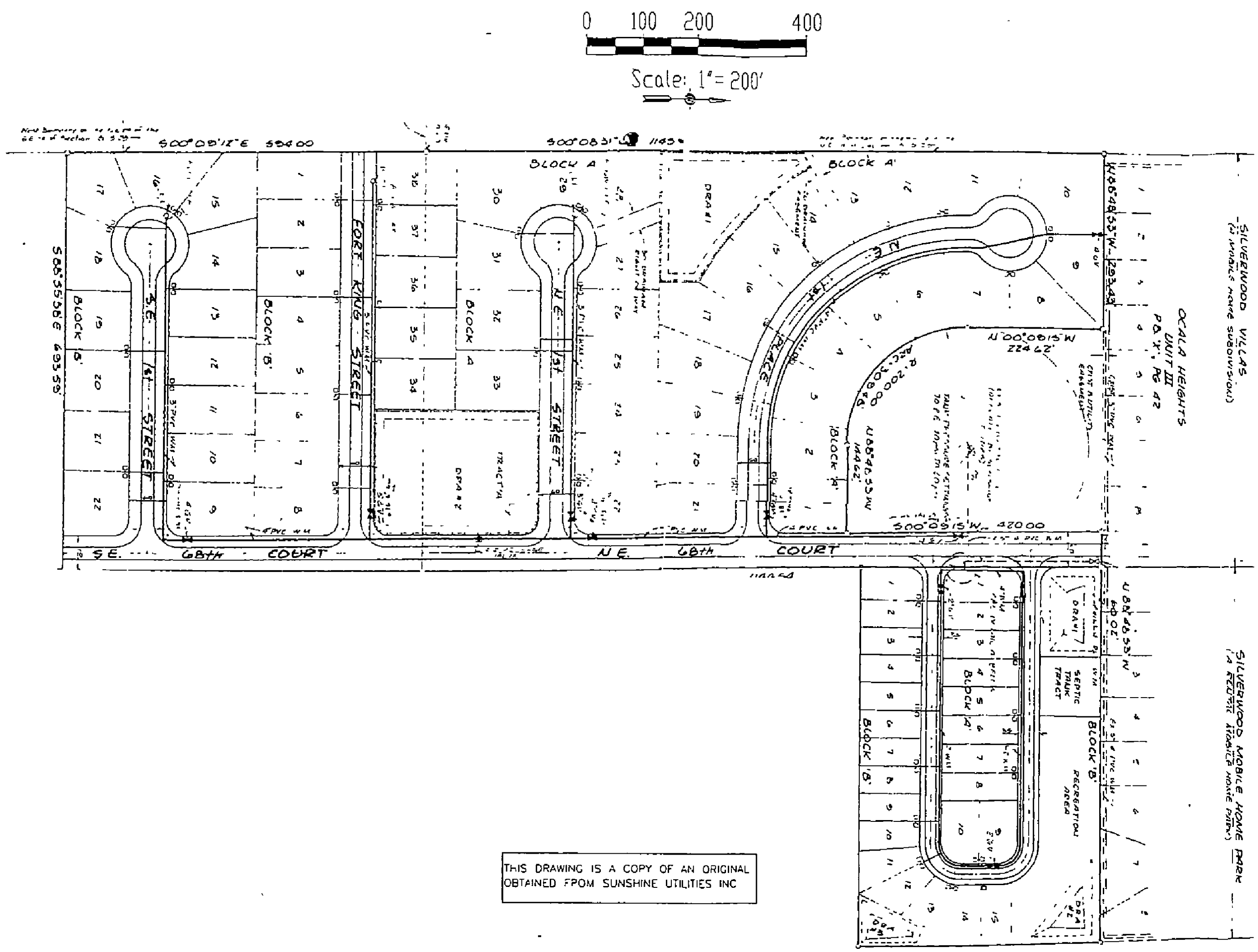
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMH	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 96356-02

1

Sheet 1 Of 1



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H.W. BARINEAU & ASSOCIATES, INC.
Civil • Environmental Engineers & Planners

SILVERWOOD VILLAS

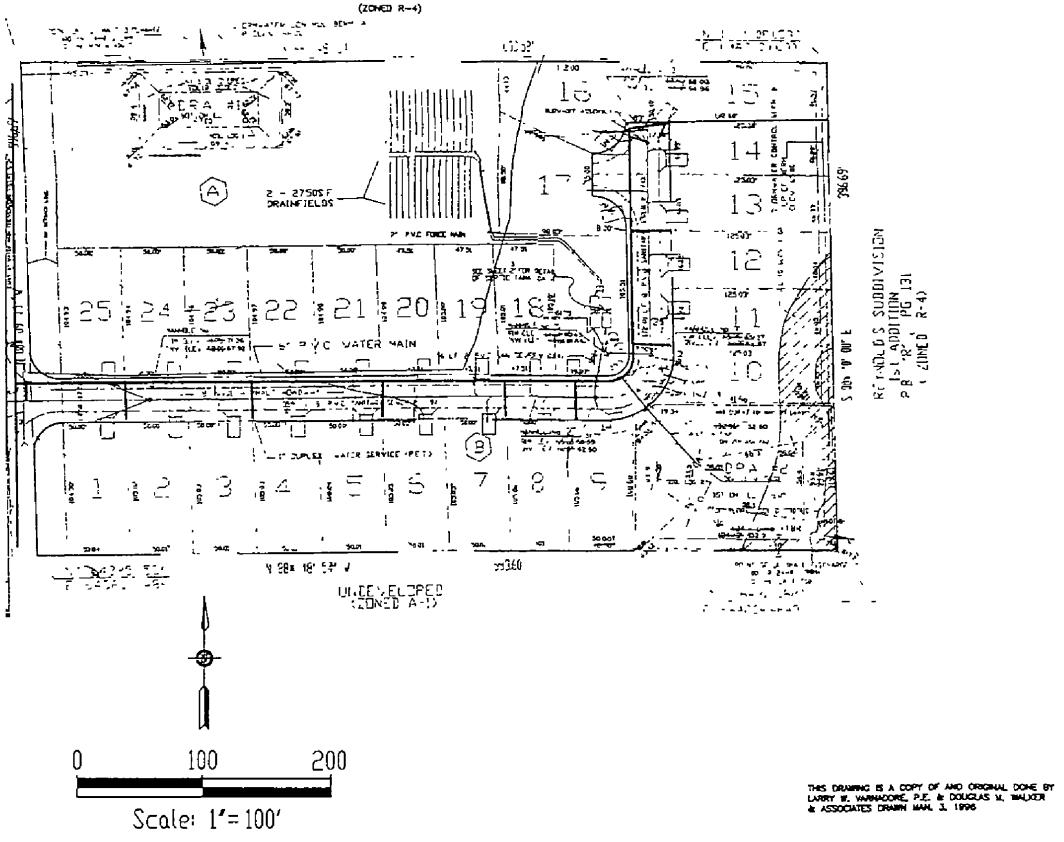
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMH	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



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H. W. Barrineau & Associates, Inc.
1100 Bottellier 17th Ft. Suite 208
Ocala, Florida 34471
Ph (352) 840-9600
Fax (352) 840-9771

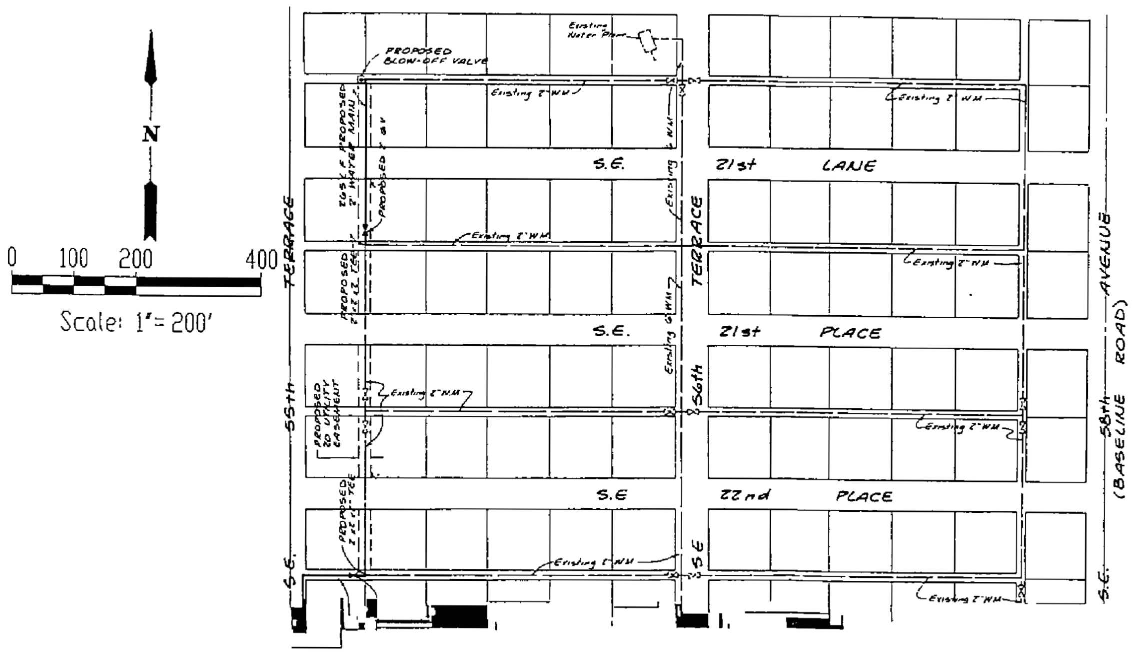
COUNTRY AIRE

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN.	CHK.	DATE	DESCRIPTION
RMB	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 96138-02

Docket No. 992015-WU
Exhibit ___ (HWB-4)
Page 82 of 115



OAKHURST

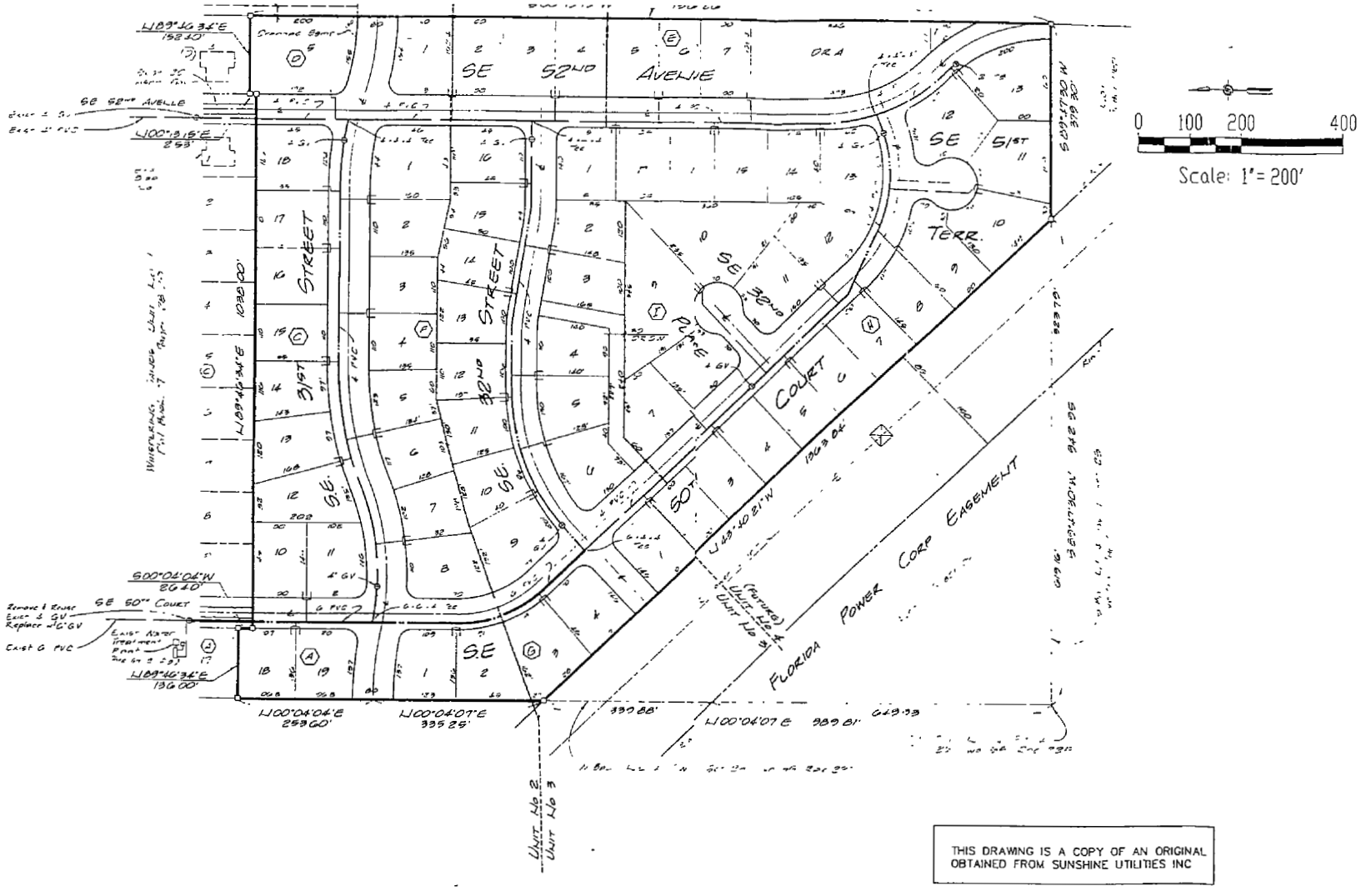
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9836-02

1

Sheet 1 Of 1



H.W. Barnhill & Associates, Inc.
Civil • Environmental Engineers & Planners
2008 S.E. 17th Street, Suite 302 Phone (352) 347-9271
Ocala, Florida 34471 Fax (352) 347-9353

WHISPERING SANDS UNIT 2
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DES	CHK	DATE	DESCRIPTION
Paul	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9536-02

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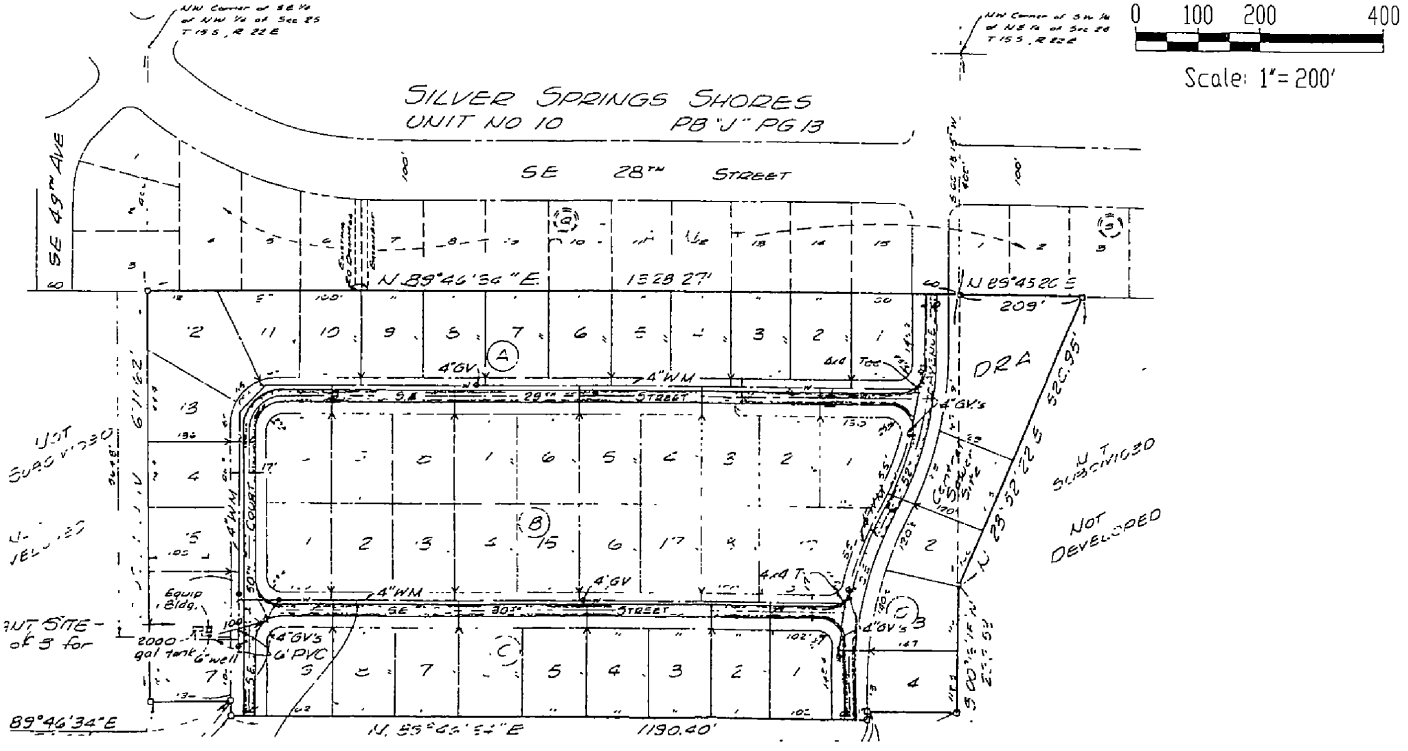

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H.W. BARRINEAU & ASSOCIATES, INC.
Civil • Environmental Engineers & Planners
2080 NE 170th Street, Suite 302 Phone (352) 687-9221
Ocala, Florida 34475 Fax (352) 687-9555

WHISPERING SANDS UNIT 1

SUNSHINE UTILITIES INC.

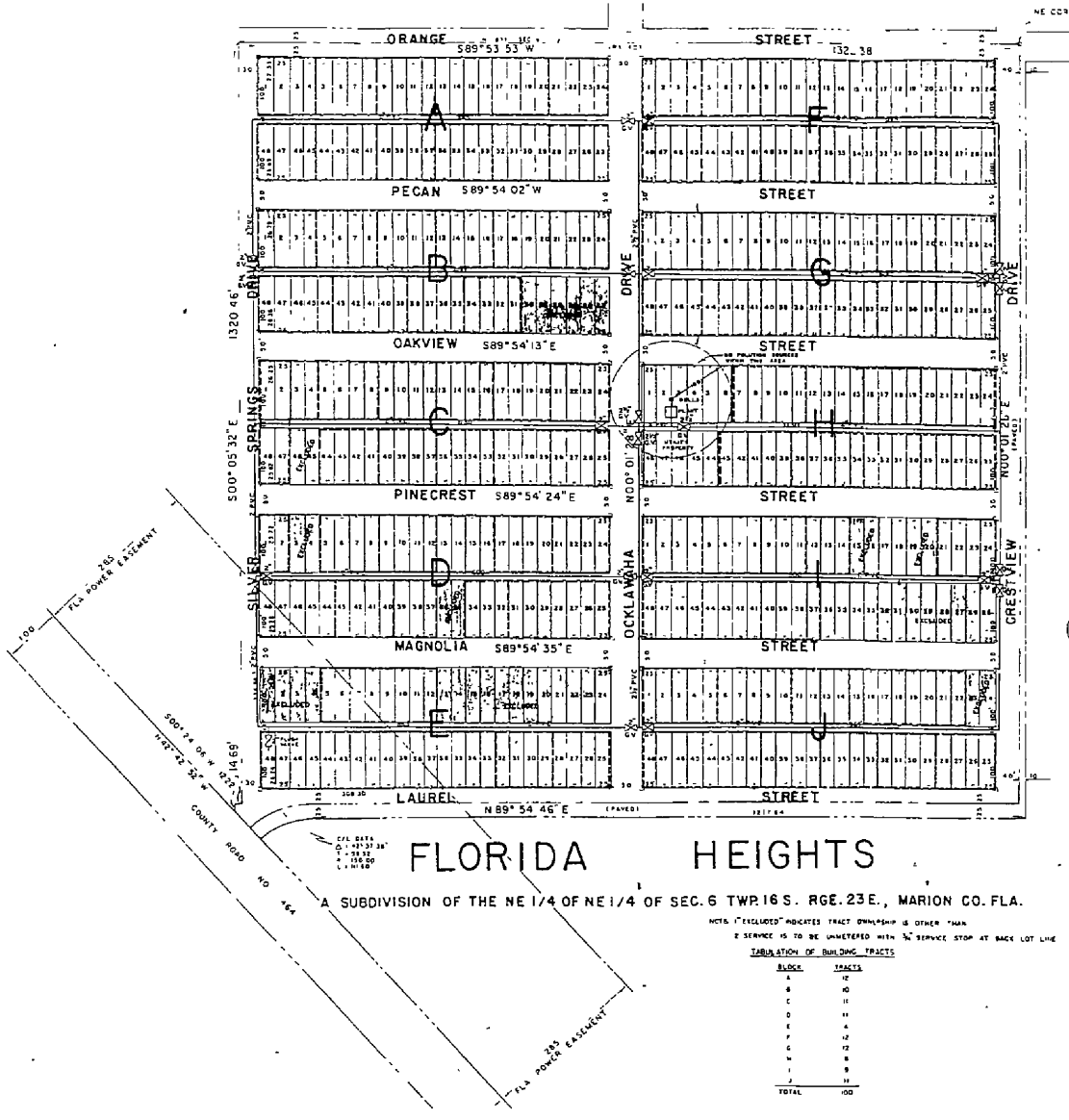
OCALA, FLORIDA

DSN.	CHK.	DATE	DESCRIPTION
PLAN	INSP.	11 APR 97	ORIGINAL ISSUE

Project No 9636-02

1

Sheet 1 of 1



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H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 902
OCALA FLORIDA 34471
FAX (352) 840-9580
(352) 840-9974

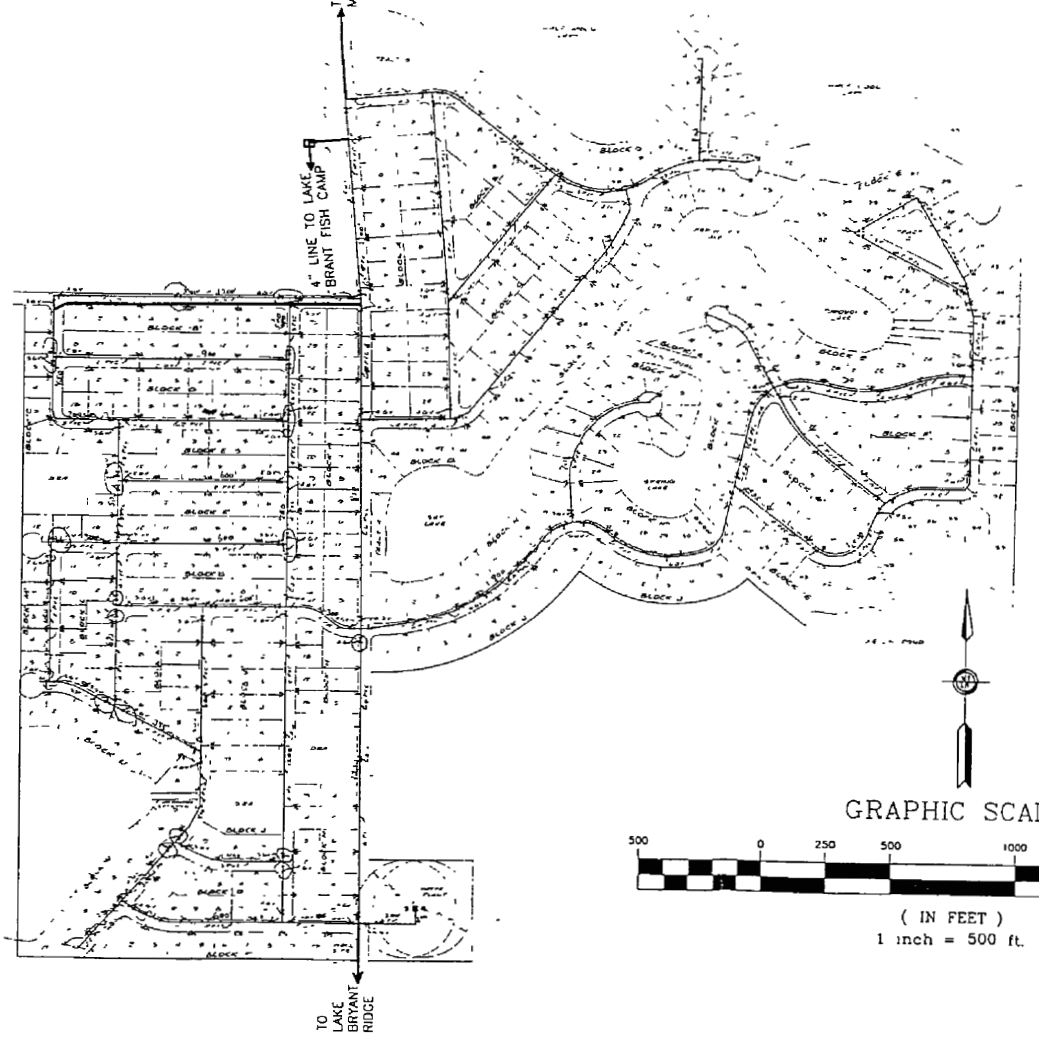
FLORIDA HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PKM	HWB	11 APR 97	ORIGINAL ISSUE

Project No 9636-02

1

Sheet 1 Of 1



GRAPHIC SCALE

500 0 250 500 1000 2000

(IN FEET)

1 inch = 500 ft.

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OCALA, FLORIDA 1904-1622 8893

H. W. LAMBINEAU & ASSOCIATES, INC.
1100 SOUTHEAST 17th ST., SUITE 502
OCALA, FLORIDA 34471
TEL (352) 840-8888
(352) 840-8778

WINDING WATERS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMJ	HWB	11 APR 07	ORIGINAL ISSUE

Project No. 0438-02

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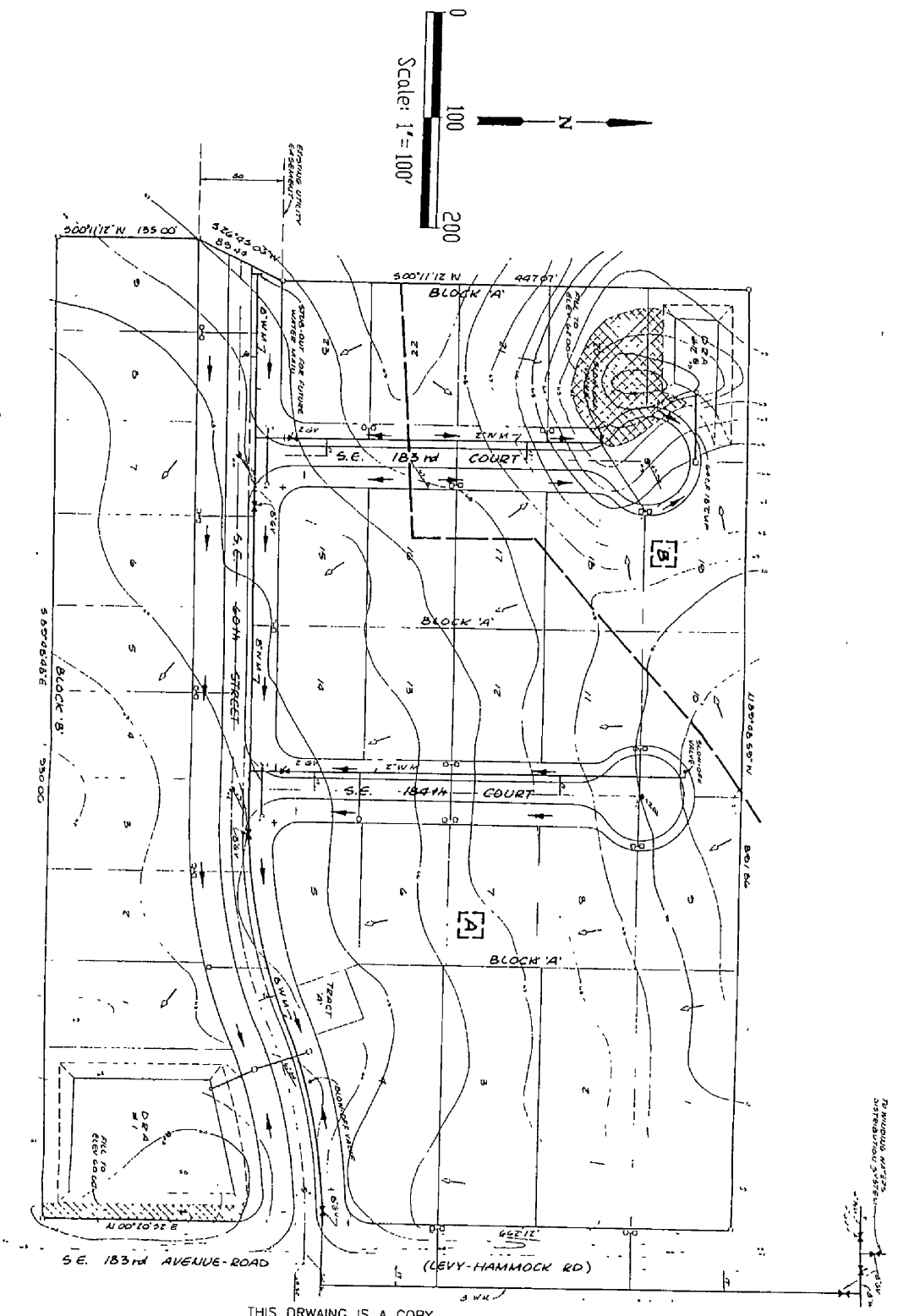

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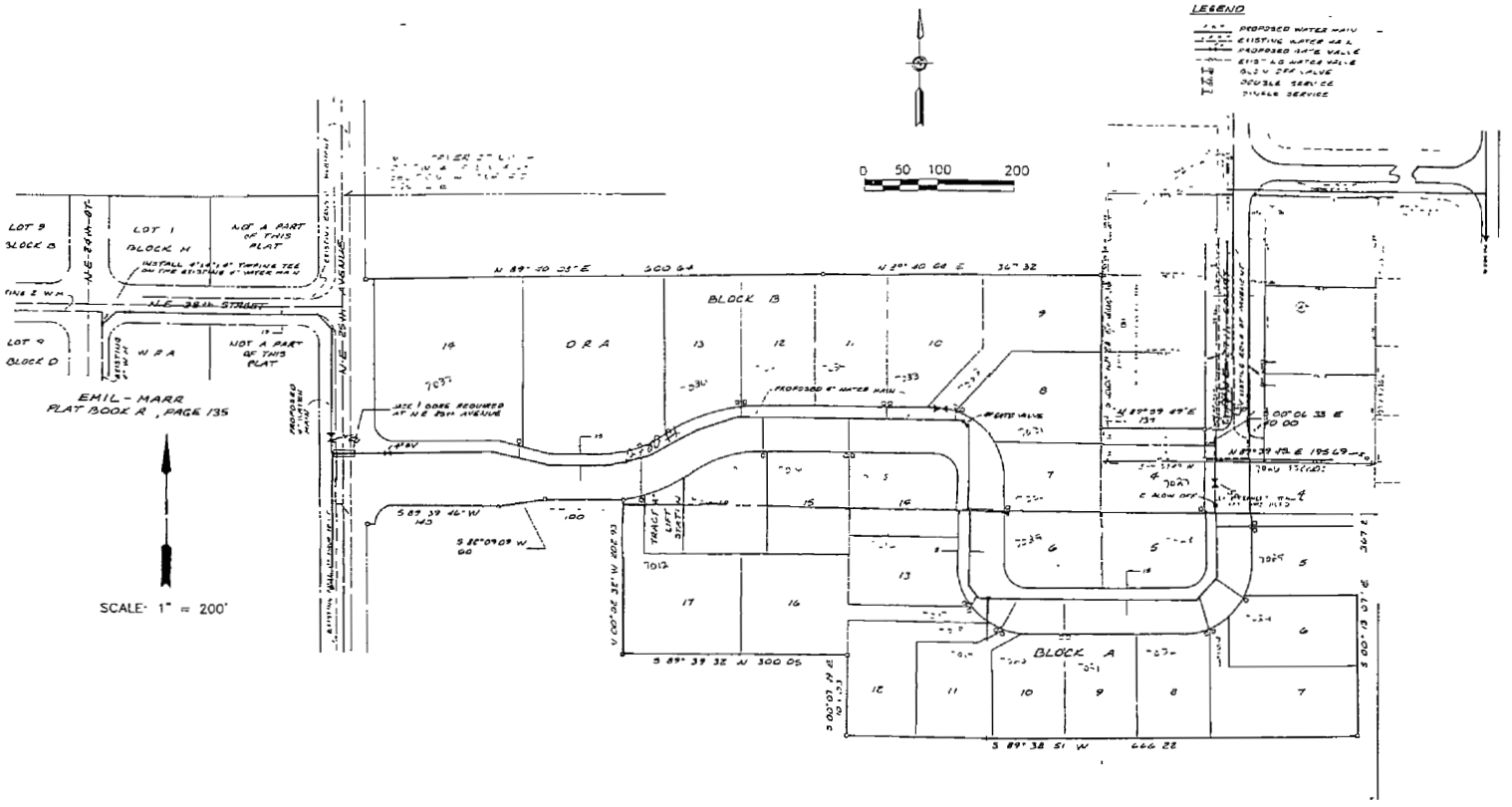
DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9639-02

LAKE BRYANT RIDGE

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17th ST, SUITE 208
OCALA, FLORIDA 34471
FAX (352) 840-0600
(352) 840-9774



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H. W. Barron III & Associates Inc
Civil • Environmental Engineers & Planners
2100 S.E. 17th Street, Suite 302 Phone (352) 840-9224
Ocala, Florida 34471 Fax (352) 840-9555

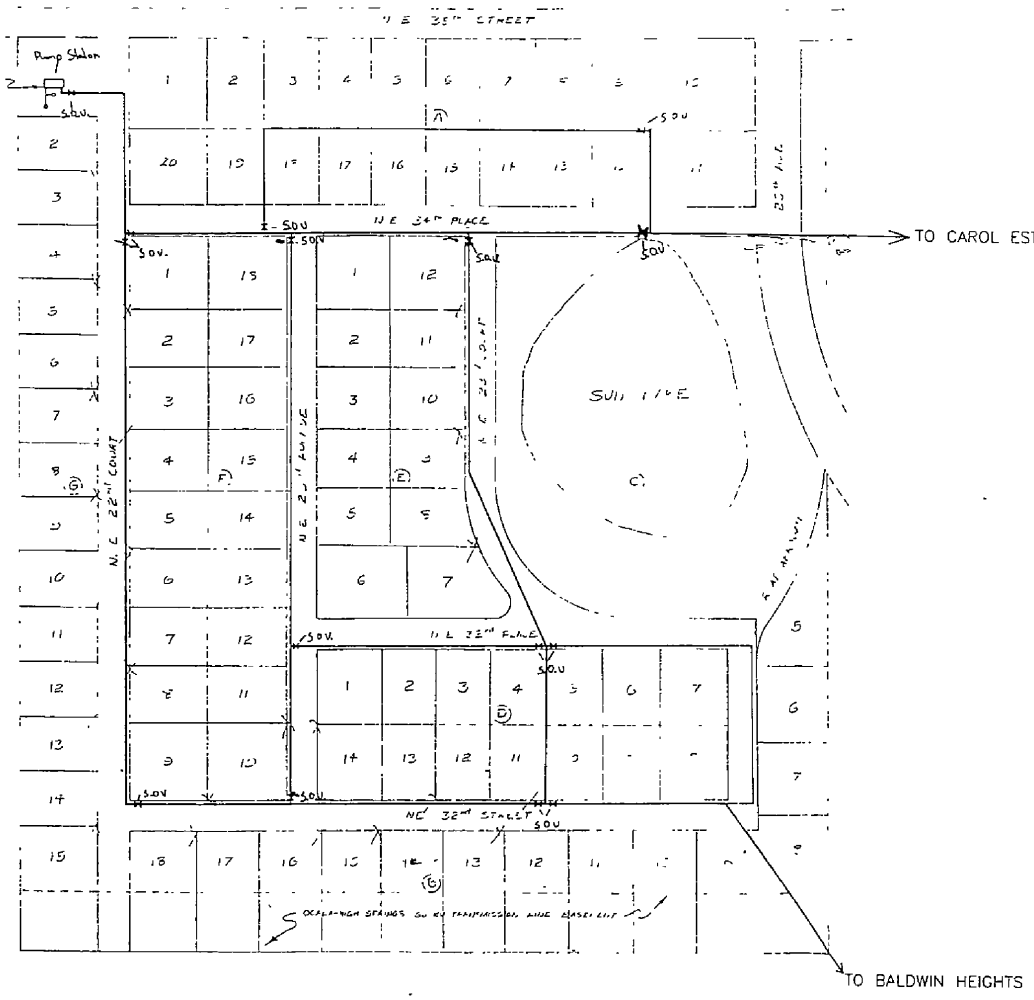
PEARL BRITAIN

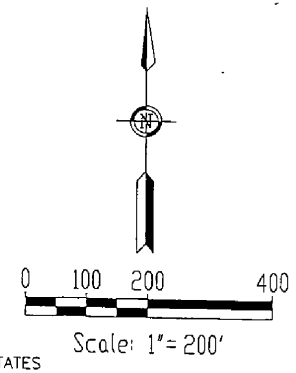
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
CEL	HWB	08 FEB 00	ORIGINAL ISSUE

Project No. 9636-02

1





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Civil • Environmental Engineers & Planners
2100 S.W. 17th Street, Suite 302 Phone (352) 629-9271
Ocala, Florida 34471 Fax (352) 629-9688

SUNRAY ESTATES

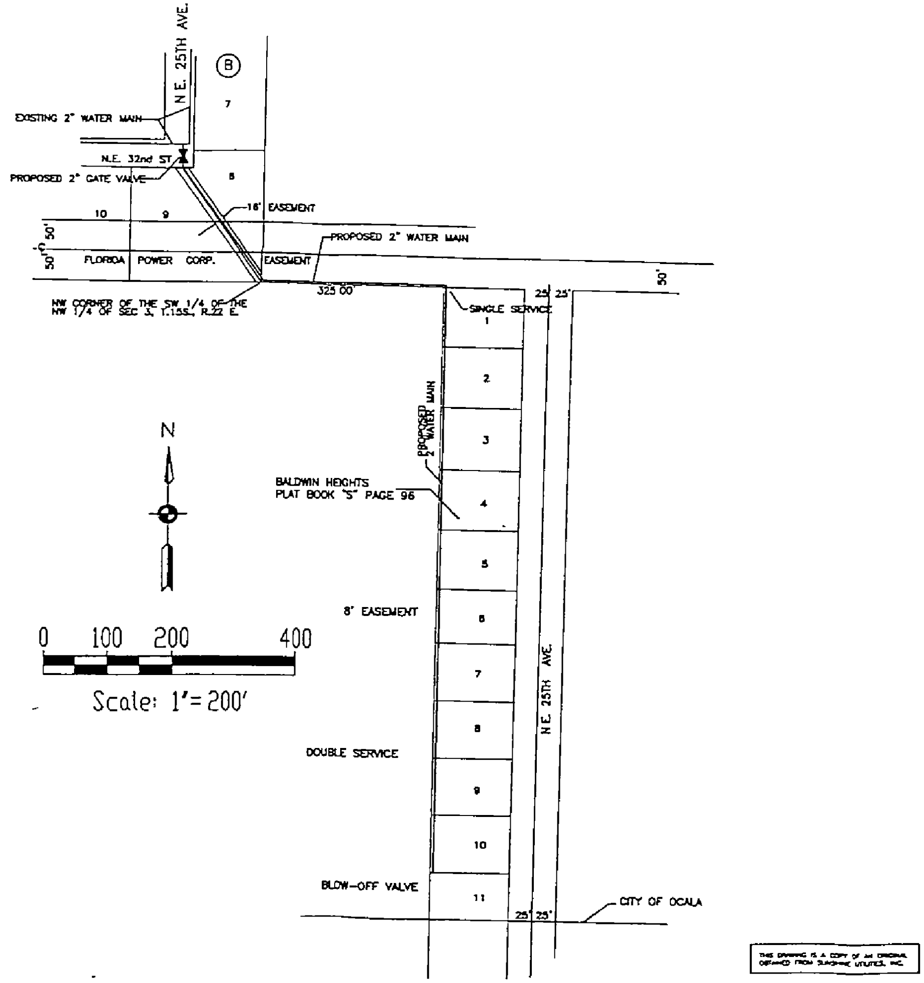
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRW	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9836-02

1

Sheet 1 Of 1



H. W. BARRINEAU & ASSOCIATES, INC.

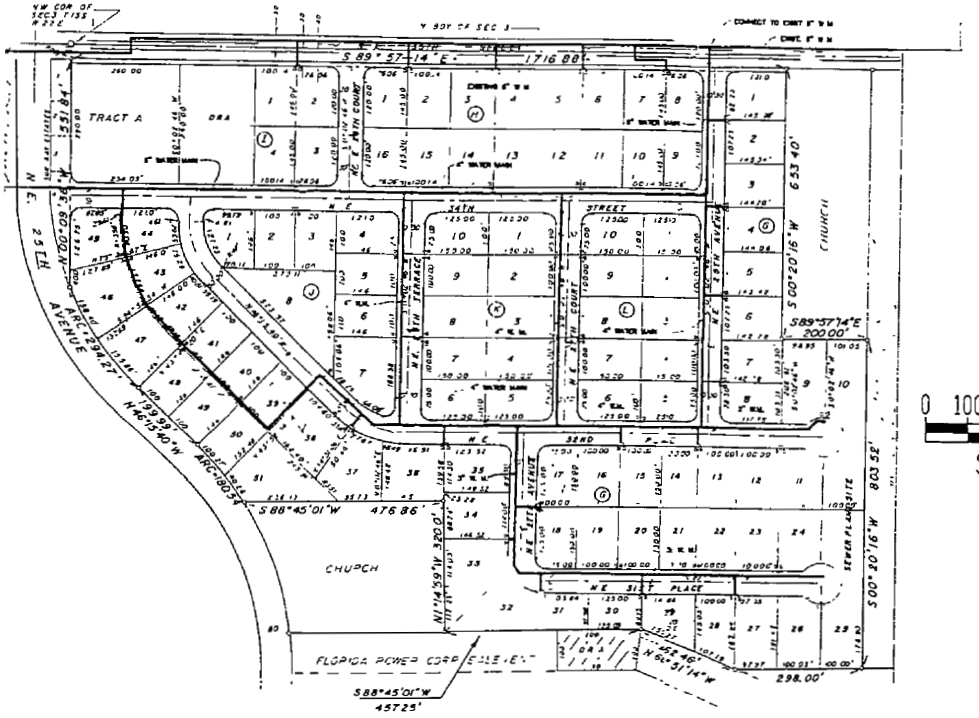
BALDWIN HEIGHTS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1



WATER SYSTEM
FOR
CAROL ESTATES
MARION COUNTY, FLORIDA

N

0 100 200 300 600

Scale: 1" = 300'

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NORTH FLORIDA ENGINEERING AND SURVEY INC.
U S HIGHWAY 27, OCALA, FL 32670
3615 N.W. 13TH STREET, GAINESVILLE, FL 32601

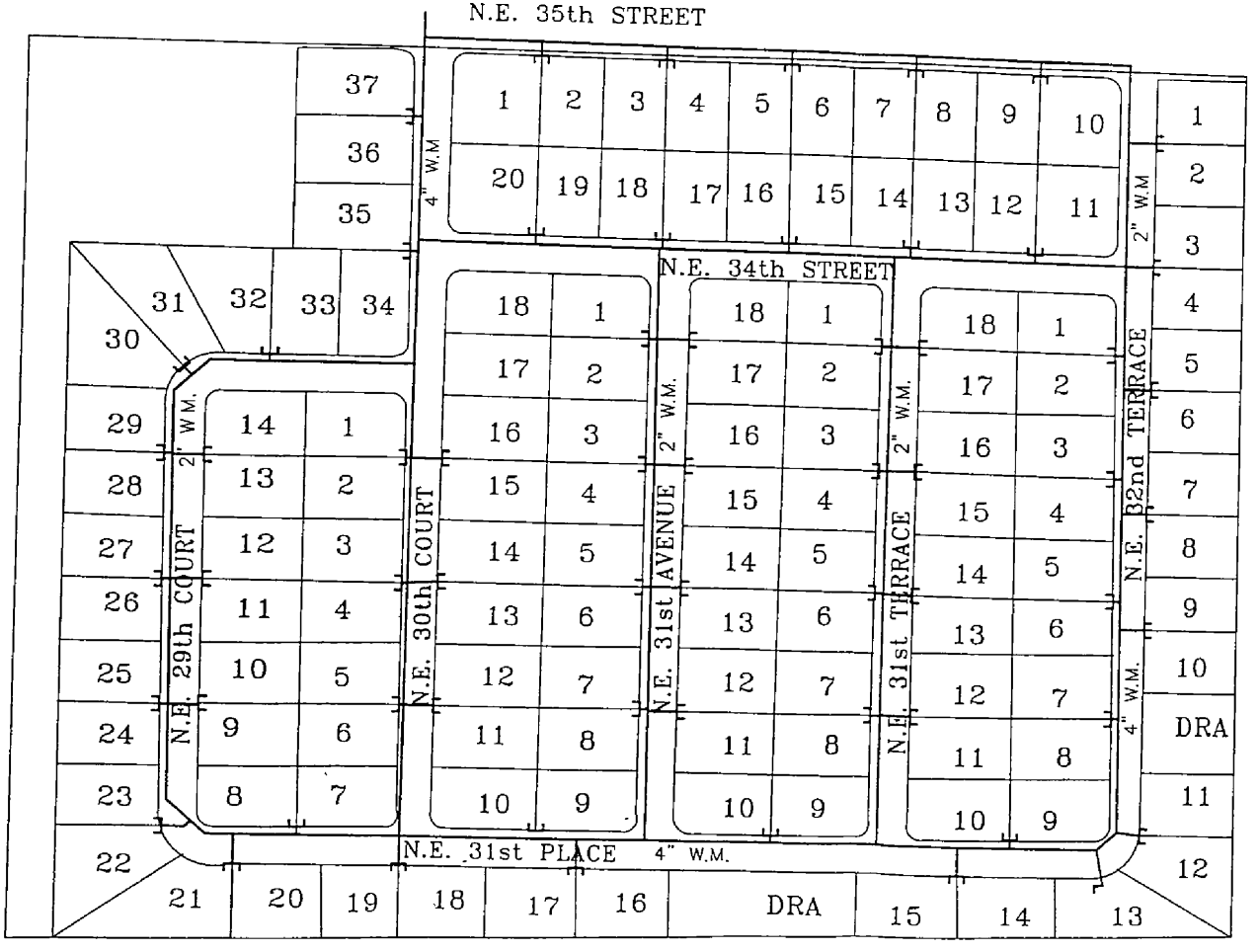
H.W. BARRINEAU & ASSOCIATES, INC.
8190 SOUTHEAST 17TH PL, SUITE 108, OCALA, FLORIDA 34471
PH (352) 840-0888
FAX (352) 840-0774

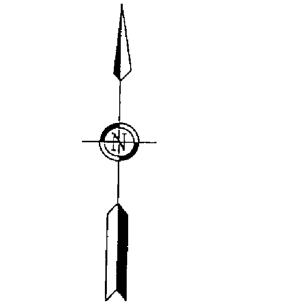
CAROL ESTATES (WEST)
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN.	CHK.	DATE	DESCRIPTION
PAM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9639-02

1





H.W. Barrineau & Associates, Inc.
1100 Southeast 17th St. Suite 300 Ocala, Florida 34471
Fax (352) 644-6448
(352) 840-1771

CAROL ESTATES (EAST)

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWW	HWB	11-JAN-97	ORIGINAL ISSUE

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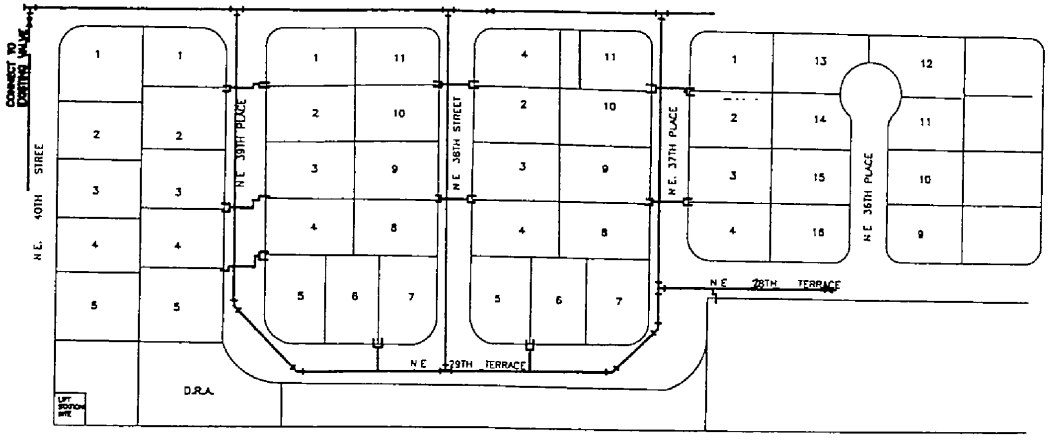
Scale: 1"= 200'



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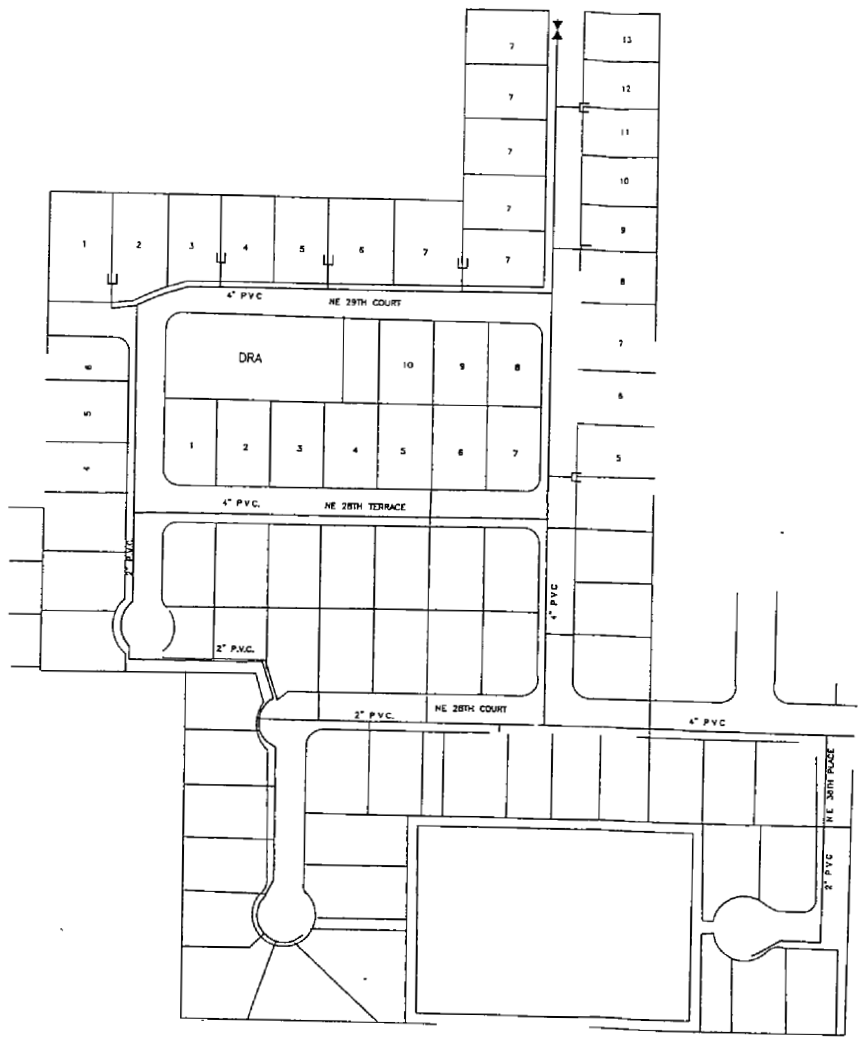
H.W. Barrineau & Associates, Inc.

BOULDER HILL

SUNSHINE UTILITIES, INC.
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
Plan	HWB	11 APR 97	ORIGINAL ISSUE



0 100 200 400

Scale: 1"= 200'

H W Barbini & Associates Inc
Civil • Environmental Engineers & Planners
2900 S.E. 17th Street, Suite 302 Phone (352) 620-9771
Ocala, Florida 32671 Fax (352) 620-9788

SUGAR PLUM

SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DSN	CHK	DATE	DESCRIPTION
PMH	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9836-02

1

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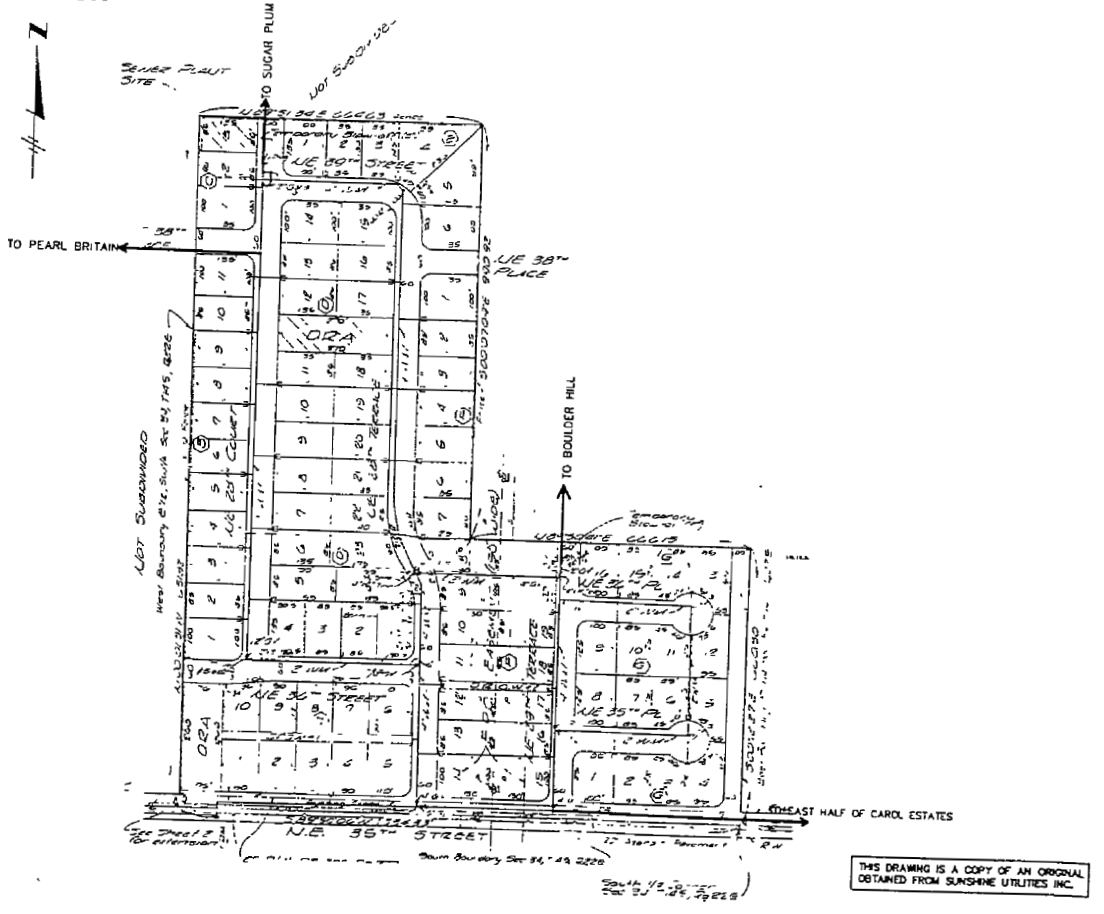

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H. W. Harrinrau & Associates, Inc.

STONE HILL

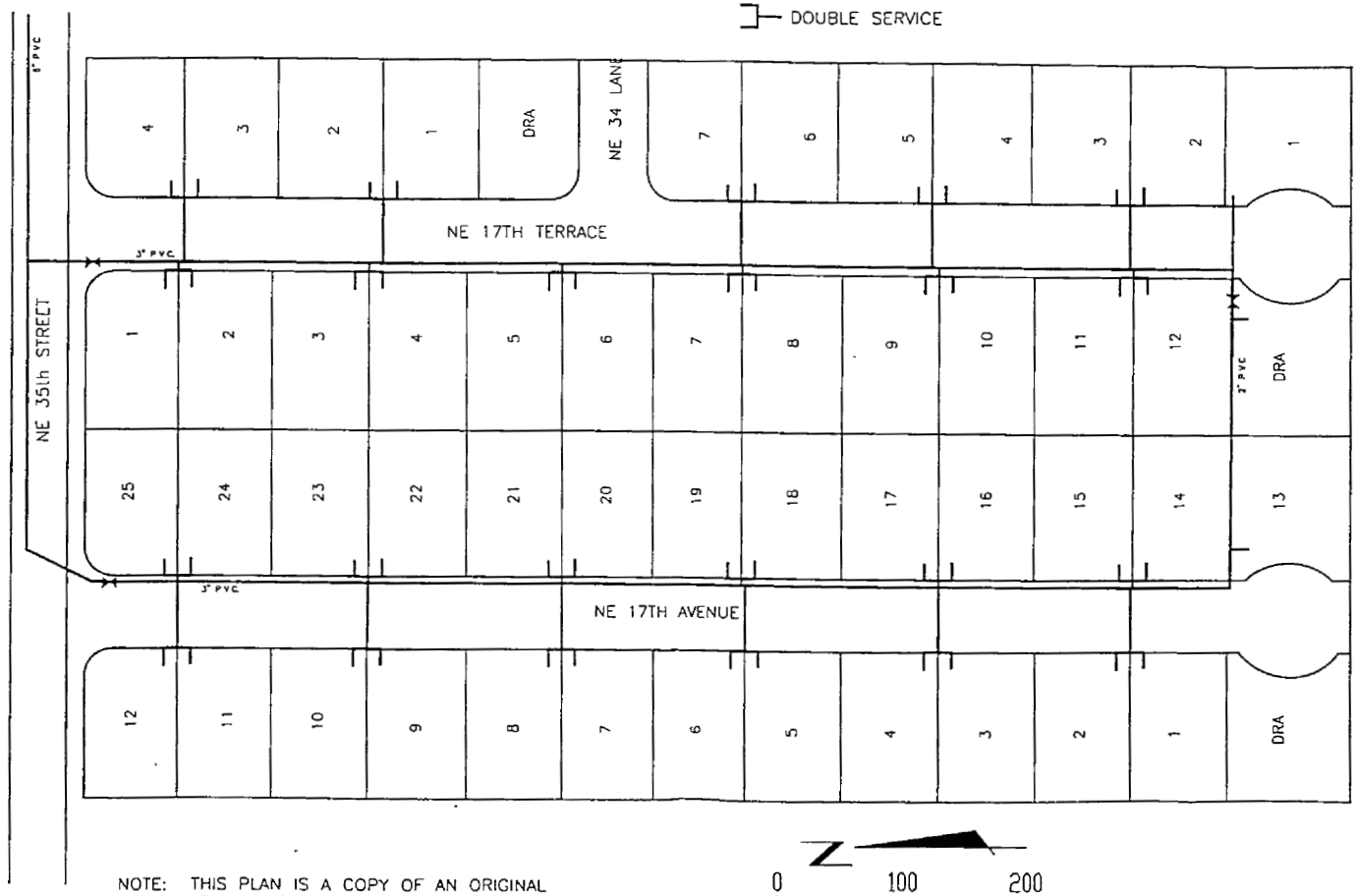
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 01	ORIGINAL ISSUE

JASON'S LANDING WATER DISTRIBUTION SYSTEM

LEGEND

- 6" PVC EXISTING WATER MAIN &SIZE
- WELL LOCATION
- 6" GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE



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N

0 100 200

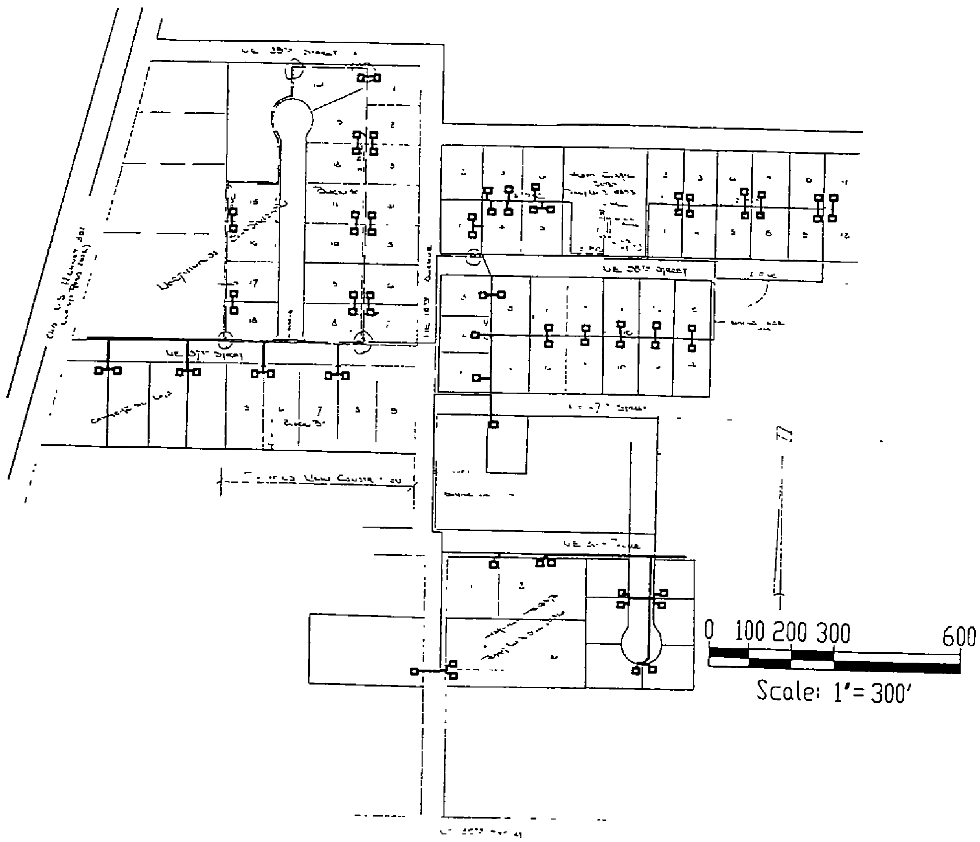
Scale: 1"= 100'

H.W. Barrineau & Associates, Inc.
1100 SOUTHEAST 17th ST., SUITE 608 OCALA, FLORIDA 34471
PH (352) 840-8444 FAX (352) 840-8771

JASON'S LANDING
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PHM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02



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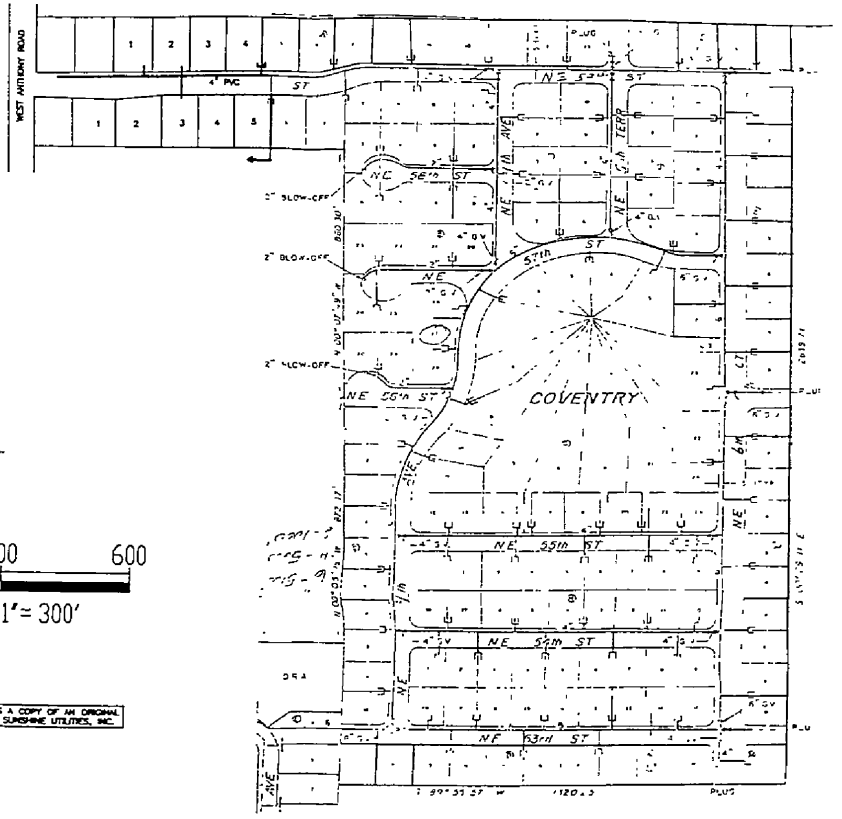
H.W. BARRINEAU & ASSOCIATES, INC.

HODGES NORTHWOODS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE



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H. W. Barrineau & Associates, Inc.
8100 Southeast 17th St., Suite 208
Ocala, Florida 34471
Fax (352) 840-9488
(352) 840-9711

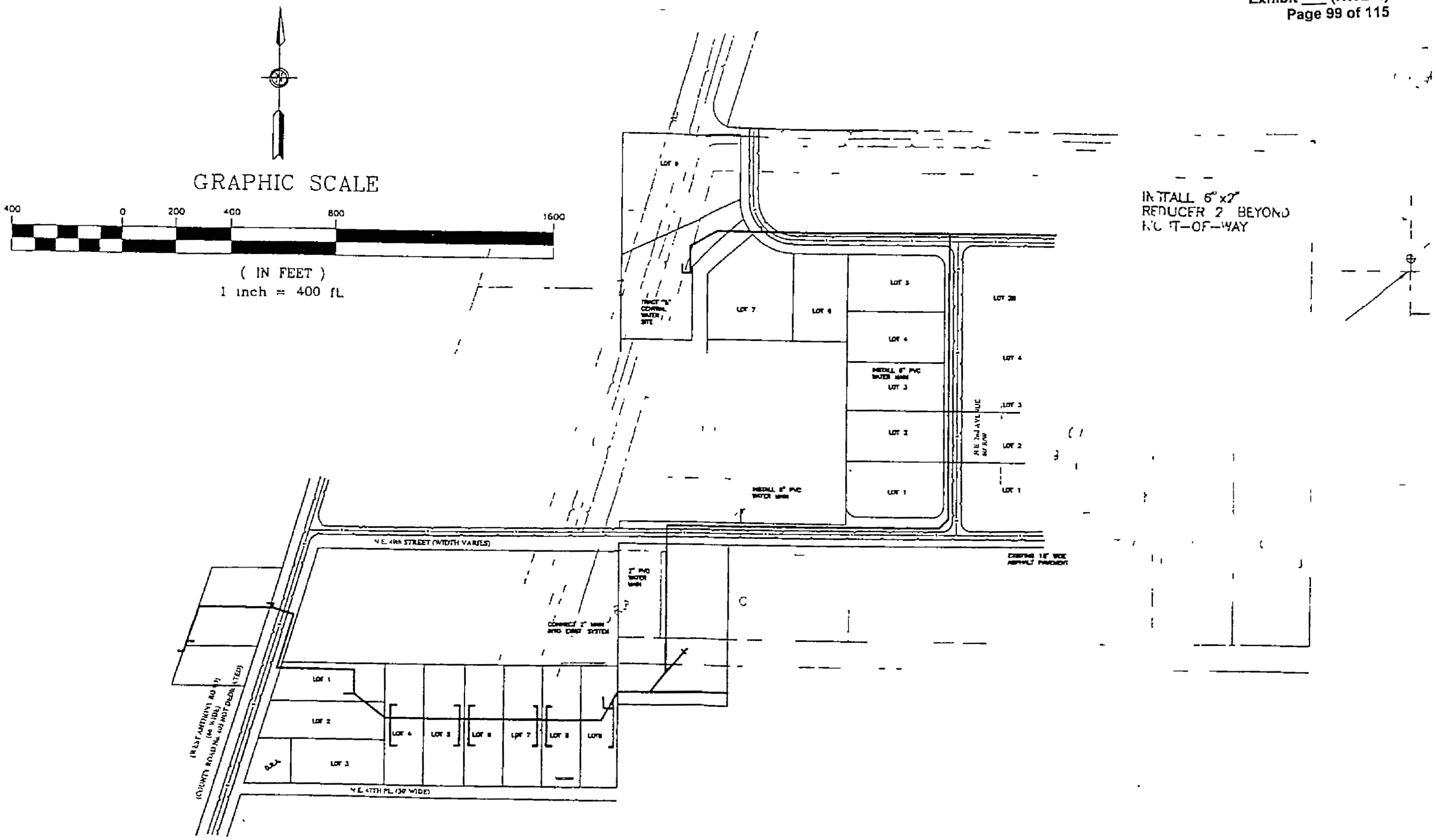
COVENTRY

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DSN	CHK	DATE	DESCRIPTION
PAM	HWB	11 APR 02	ORIGINAL ISSUE

Project No. 98138-02

1



THIS DRAWING IS A COPY OF AN ORIGINAL
DONE BY LONDON ENGINEERING & ASSOCIATES, INC.

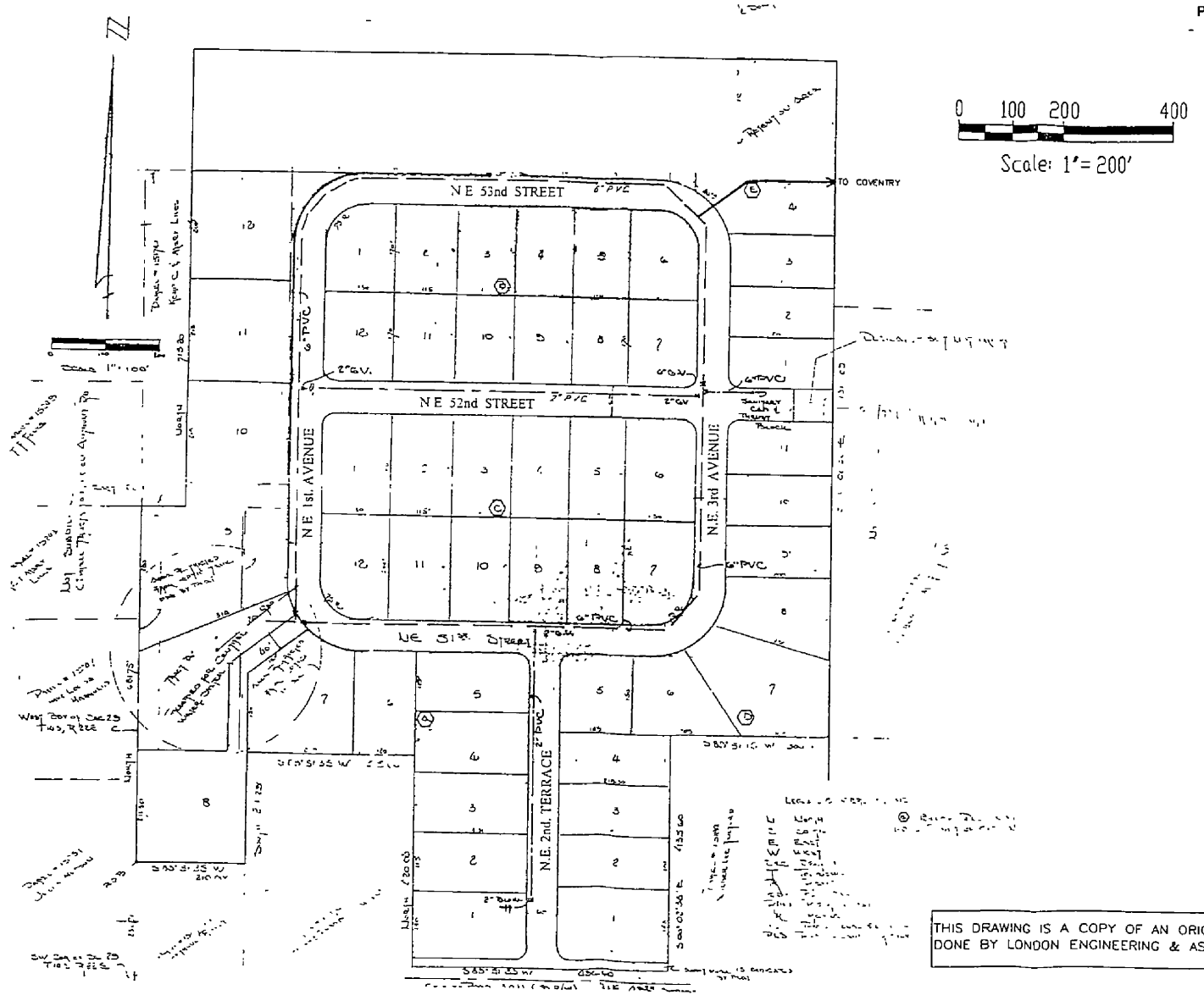
H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 802
OCALA, FLORIDA 34471
FAX (352) 840-0630
(352) 840-0774

BALLARD ACRES

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02



THIS DRAWING IS A COPY OF AN ORIGINAL DONE BY LONDON ENGINEERING & ASSOCIATES, INC

H.W. Barrineau & Associates, Inc.

FORE OAKS

SUNSHINE UTILITIES, INC.
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SEL	MAB	12/19/00	ORIGINAL ISSUE

Project No. 99-39-02

1

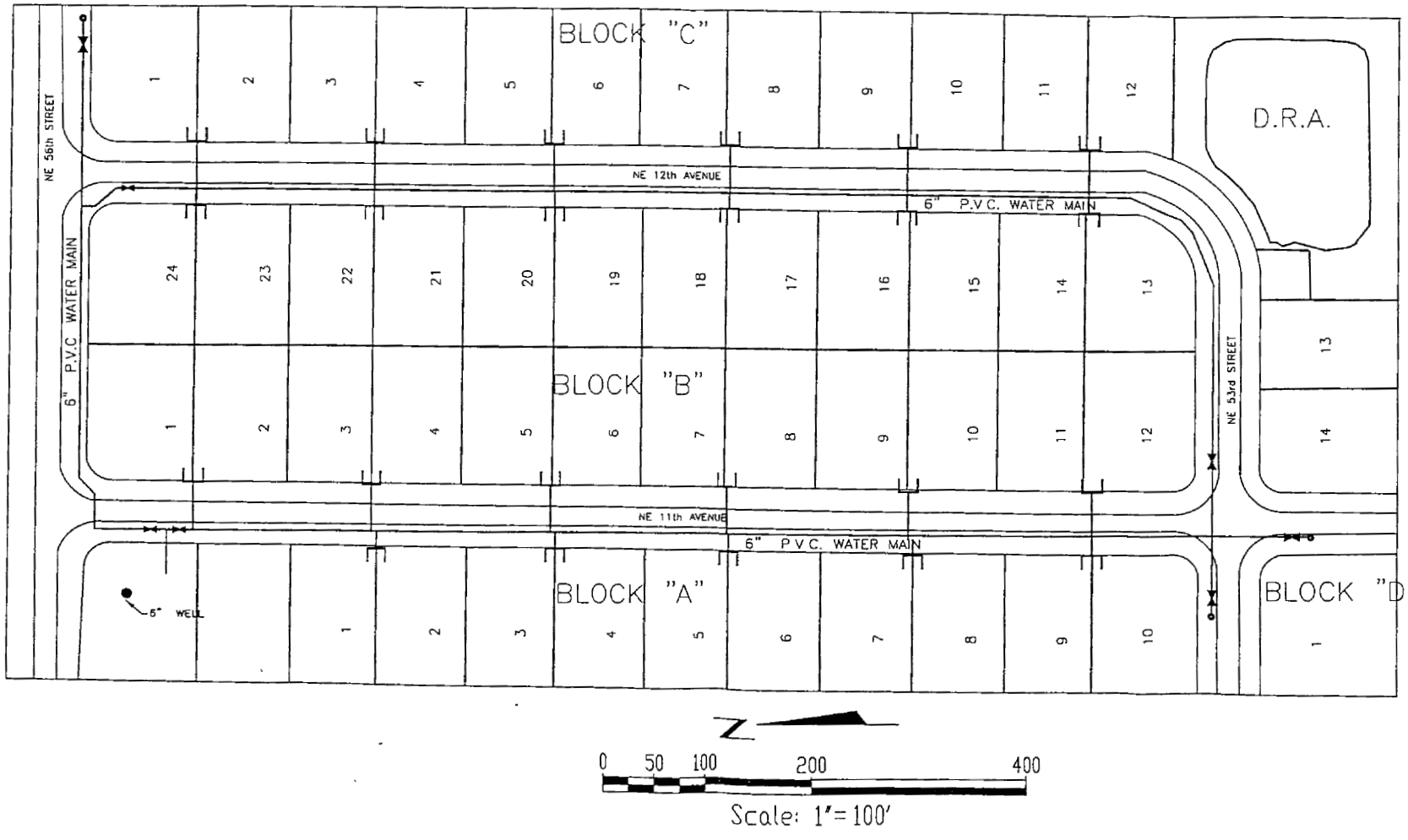
ASHLEY HEIGHTS SUBDIVISON

WATER DISTRIBUTION SYSTEM

NOTE. THIS PLAN REPRESENTS A COMPILATION OF ENGINEERING PLANS AND SPECIFICATIONS FROM THE FILES OF SUNSHINE UTILITIES, INC.

LEGEND

- 6" PVC — EXISTING WATER MAIN &SIZE
- WELL LOCATION
- 6" GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE

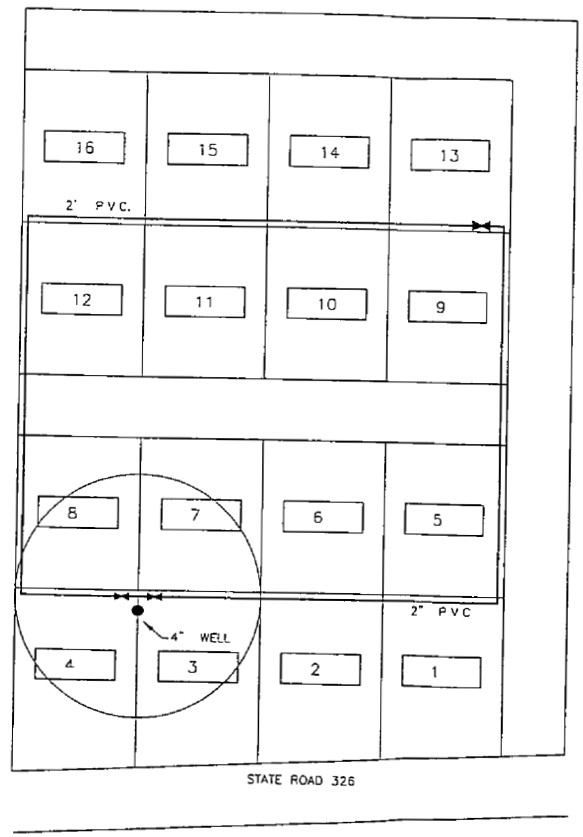


H.W. Harrinhaus & Associates, Inc.

ASHLEY HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DES	CHK	DATE	DESCRIPTION
PMW	DHC	11 APR 97	ORIGINAL ISSUE

SUTTONS DUPLEX WATER DISTRIBUTION SYSTEM



LEGEND

2" PVC EXISTING WATER MAIN &SIZE

WELL LOCATION

2" GATE VALVE

BLOW-OFF VALVE

N

0 100 200

Scale: 1"=100'

NOTE THIS PLAN REPRESENTS A COMPILATION OF ENGINEERING PLANS AND SPECIFICATIONS FROM THE FILES OF SUNSHINE UTILITIES, INC

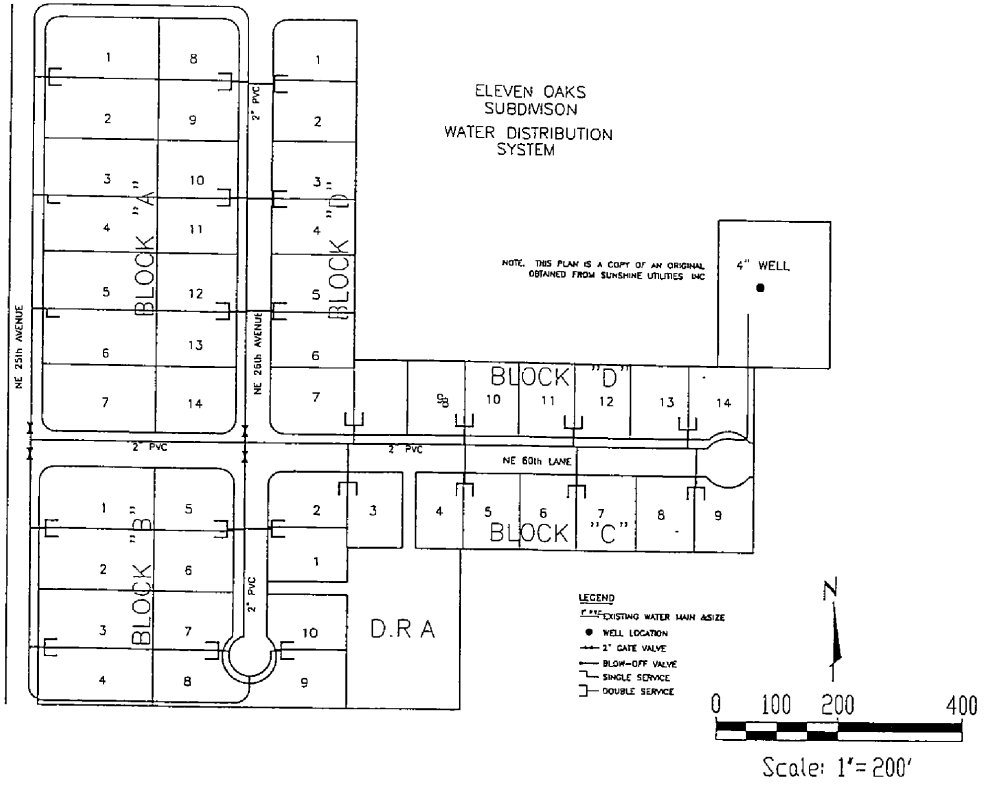
H W Buhrmaster & Associates Inc
Civil • Environmental Engineers & Planners
2700 S.E. 17th Street, Suite 302 Phone (352) 629-0224
Ocala, Florida 34471 Fax (352) 629-9565

SUTTON'S DUPLEX
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DES	CHK	DATE	DESCRIPTION
	HWB	11 APR 97	ORIGINAL ISSUE

Project No 9636-02

1



H W BIBBINS III & ASSOCIATES INC
CIVIL ENGINEERING AND LAND SURVEYING PLANNING
2100 S.W. 17th Street, Suite 102 Phone (352) 732-0771
Ocala, Florida 34471 Fax (352) 732-9555

ELEVEN OAKS
SUNSHINE UTILITIES, INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9834-02

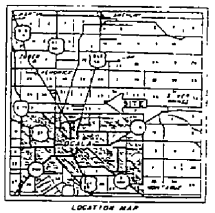
1

EMIL - MARR

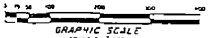
IN

SECTION 33, TOWNSHIP 14 SOUTH, RANGE 22 EAST

MARION COUNTY, FLORIDA



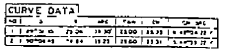
LOCATION MAP

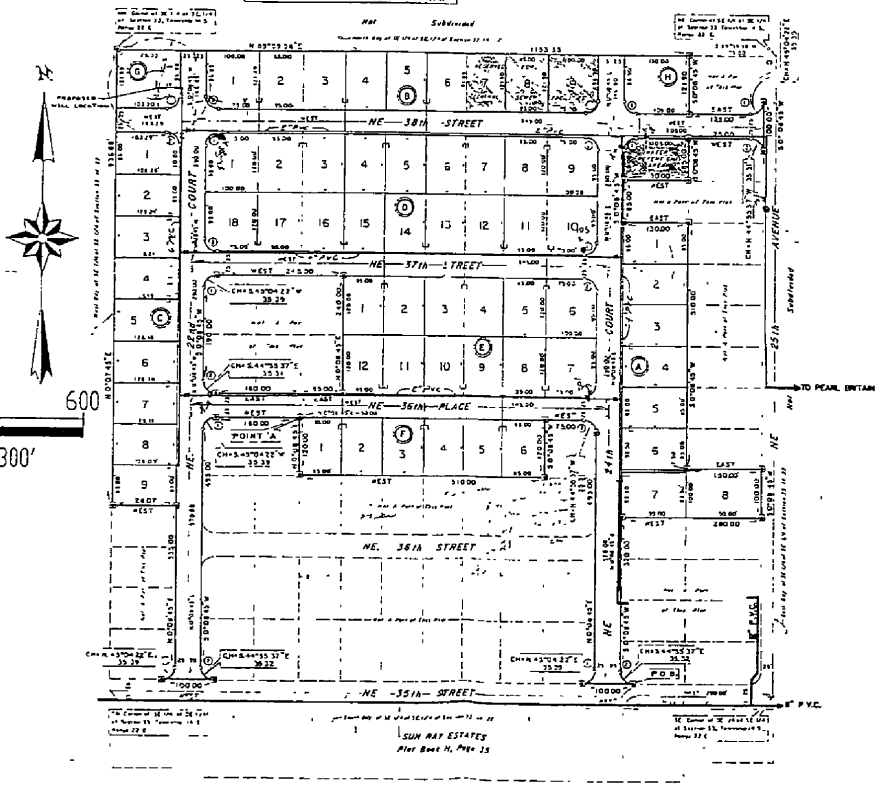


GRAPHIC SCALE

THIS DRAWING IS A COPY OF AN ORIGINAL
Prepared By
MOORHEAD ENGINEERING COMPANY
201 SE 1st Avenue Ocala Florida

CURVE DATA





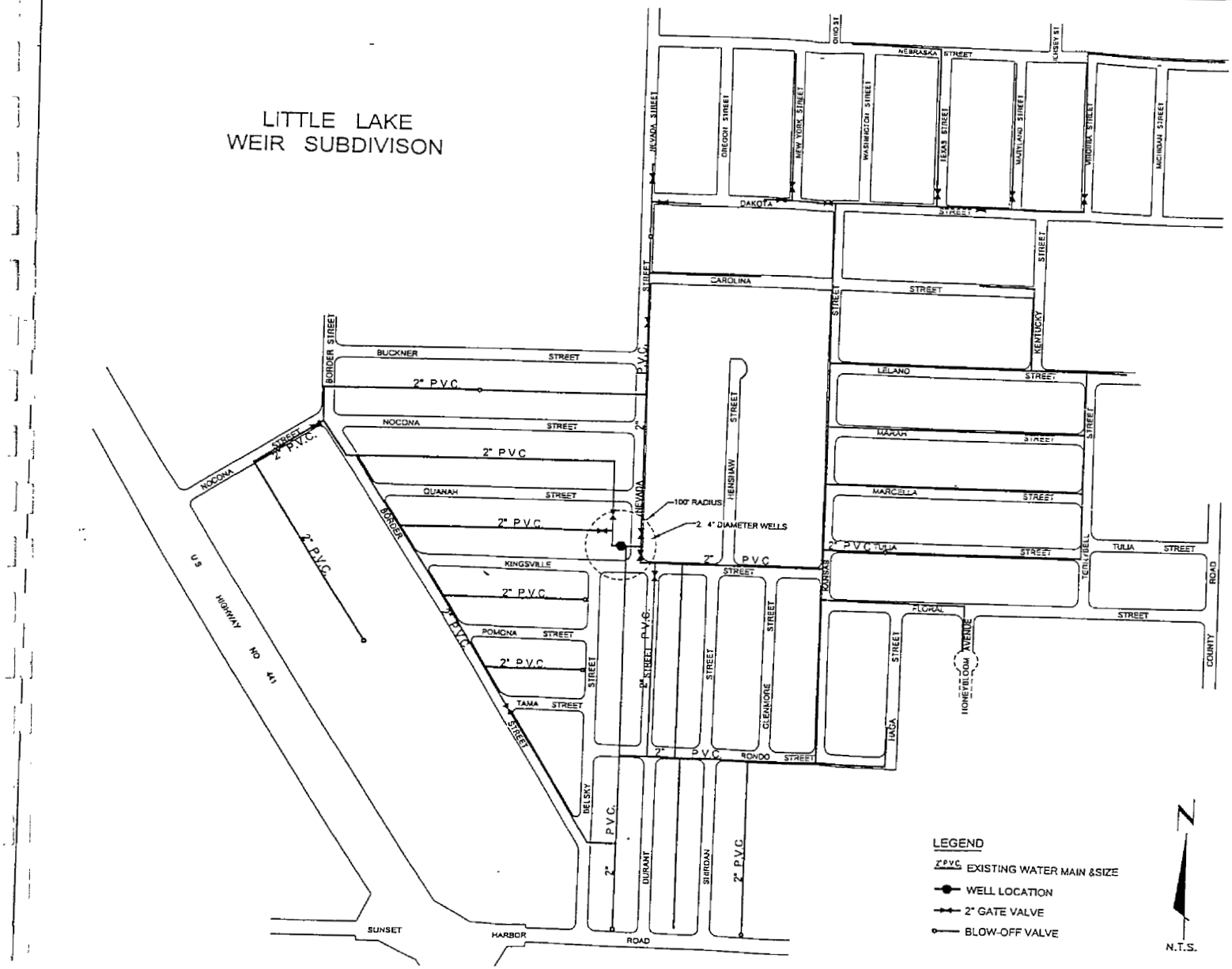
H.W. Barrineau & Associates, Inc.
2100 Southeast 17th St., Suite 502 Ocala, Florida 34471
Tel (904) 840-0468 Fax (904) 840-0776

EMIL MARR

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

PROJECT NO. 96-02

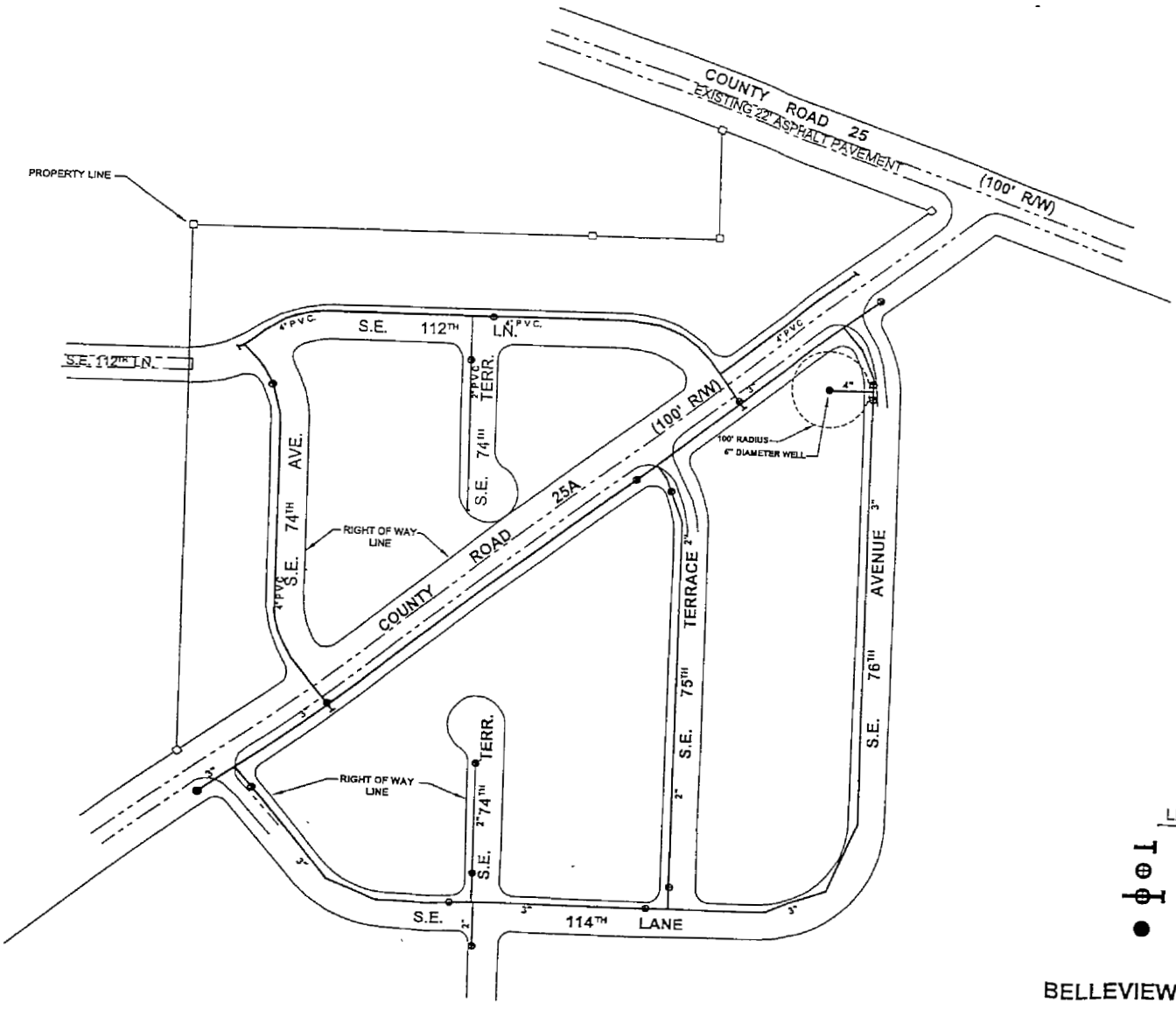


H.W. Barrineau & Associates, Inc.

FACILITY WATER SYSTEM
LITTLE LAKE WEIR SUBDIVISION
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
LAC	AJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02



LEGEND

- PLUG
- 4" GATE VALVE
- 4" TAPPING SLEEVE W/ GATE VALVE
- WELL

N

N.T.S.

BELLEVIEW OAKS ESTATES

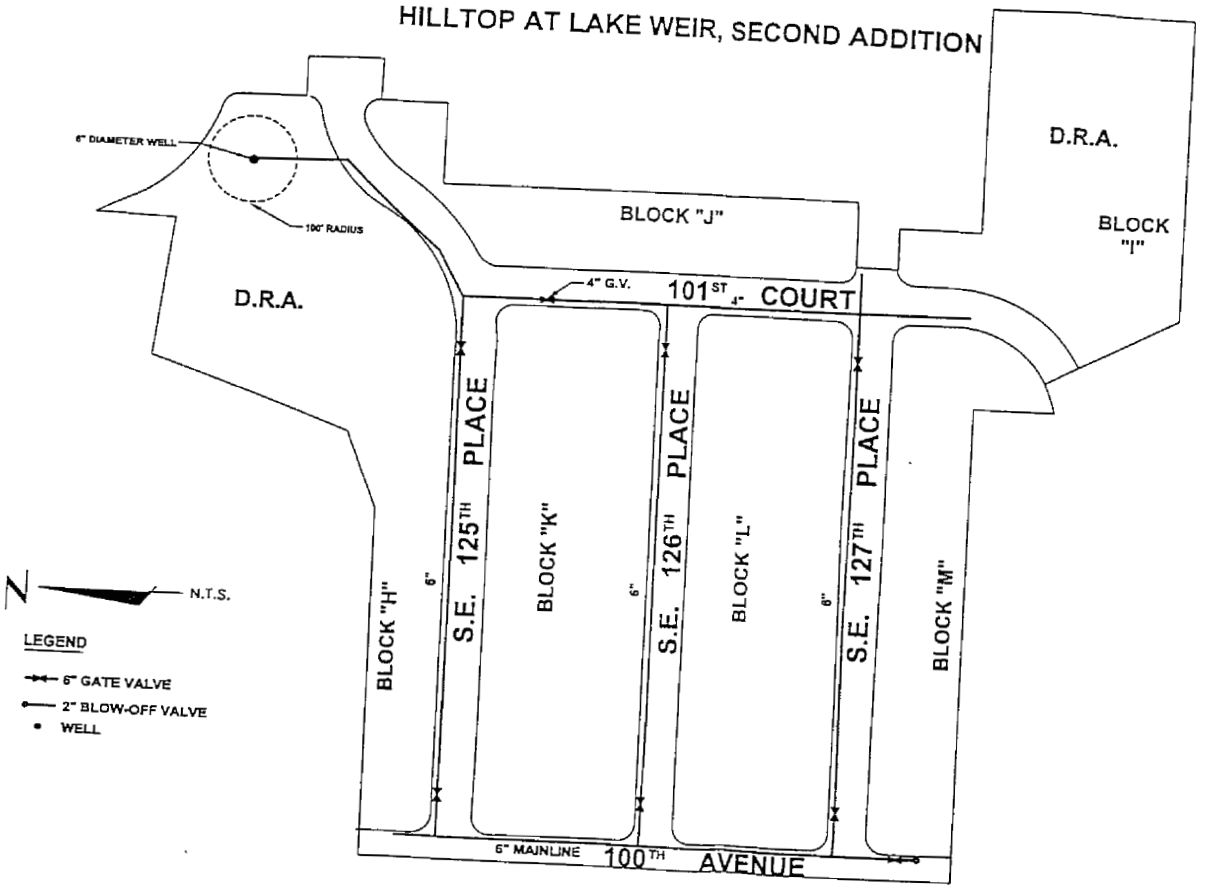
H.W. Barrineau & Associates, Inc.
8100 Southeast 17th St. Suite 400
Ocala, Florida 34471
FAX (352) 690-2588
(352) 690-2114

FACILITY WATER SYSTEM
BELLEVIEW OAKS ESTATES
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DSN	CHK	DATE	DESCRIPTION
SAO	AJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9836-02

1



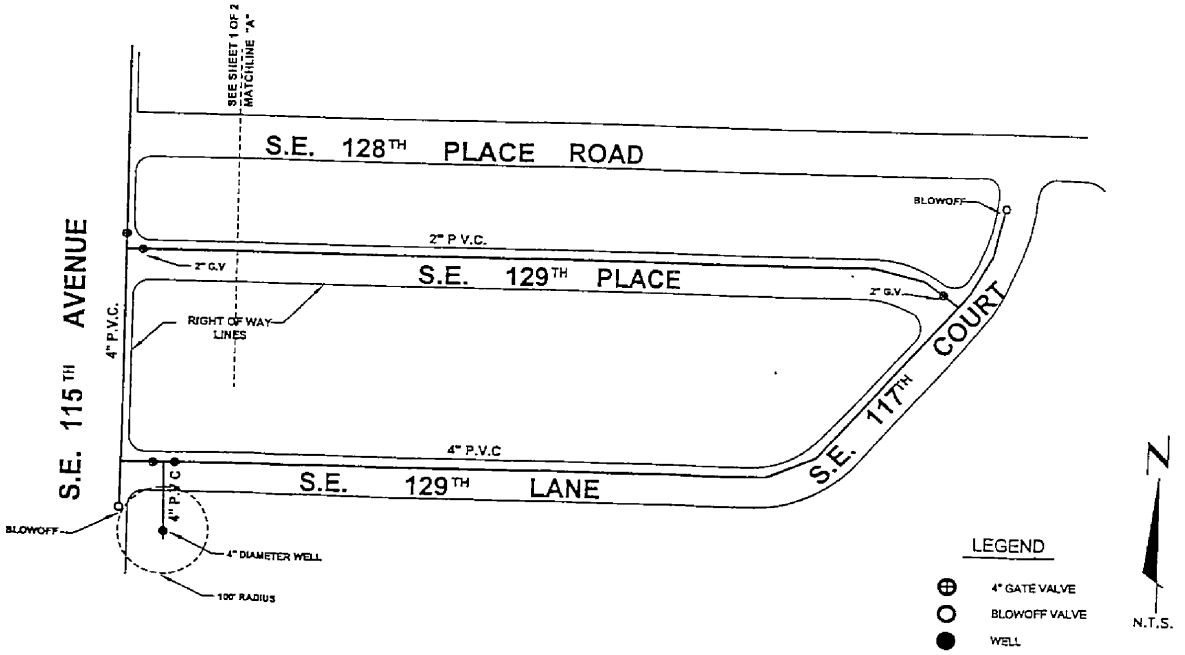
H. W. Darrinexu & Associates, Inc.

FACILITY WATER SYSTEM
HILLTOP AT LAKE WEIR
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SAD	RJW	11 JUL 99	ORIGINAL ISSUE

1

LAKEVIEW HILLS

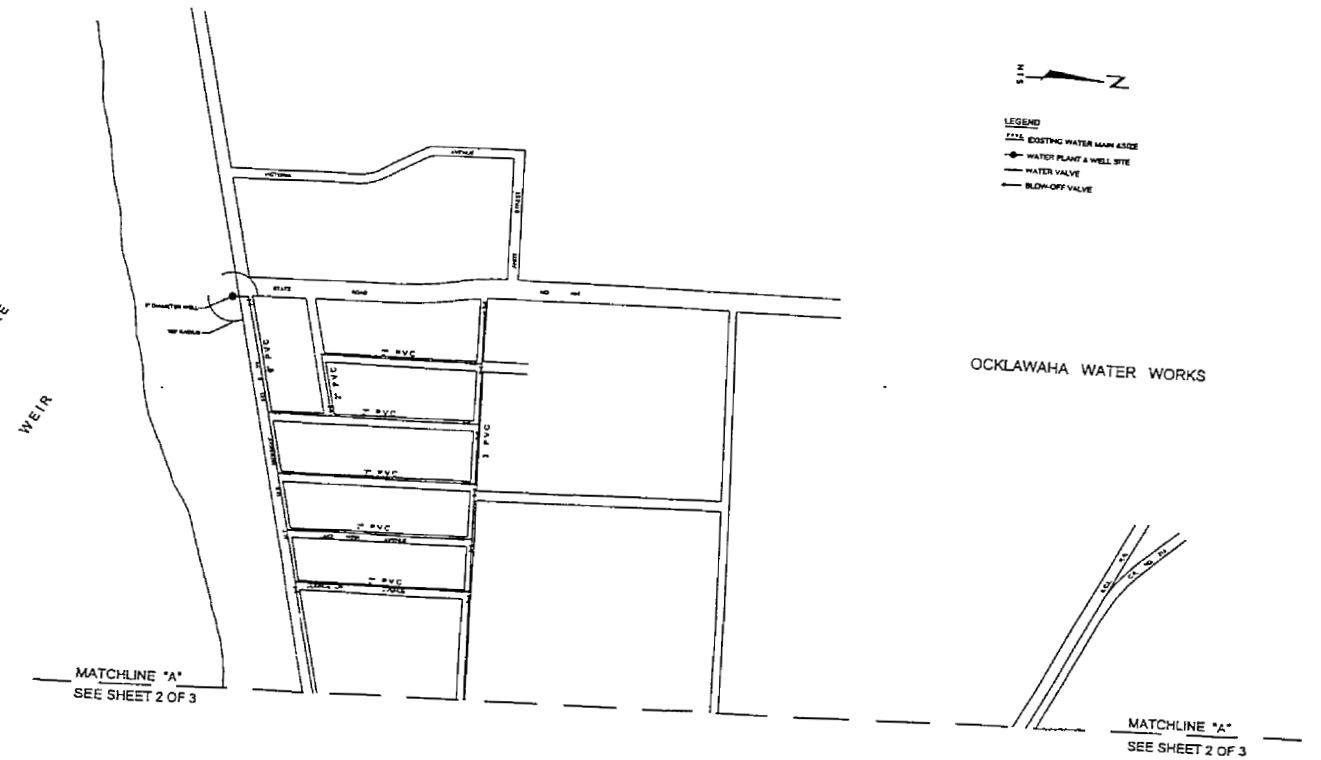


H. W. Darrineau & Associates, Inc.

FACILITY WATER SYSTEM
LAKEVIEW HILLS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRW	CHK	DATE	DESCRIPTION
SAD	RJW	14 JUL 99	ORIGINAL ISSUE

Project # 9836-02

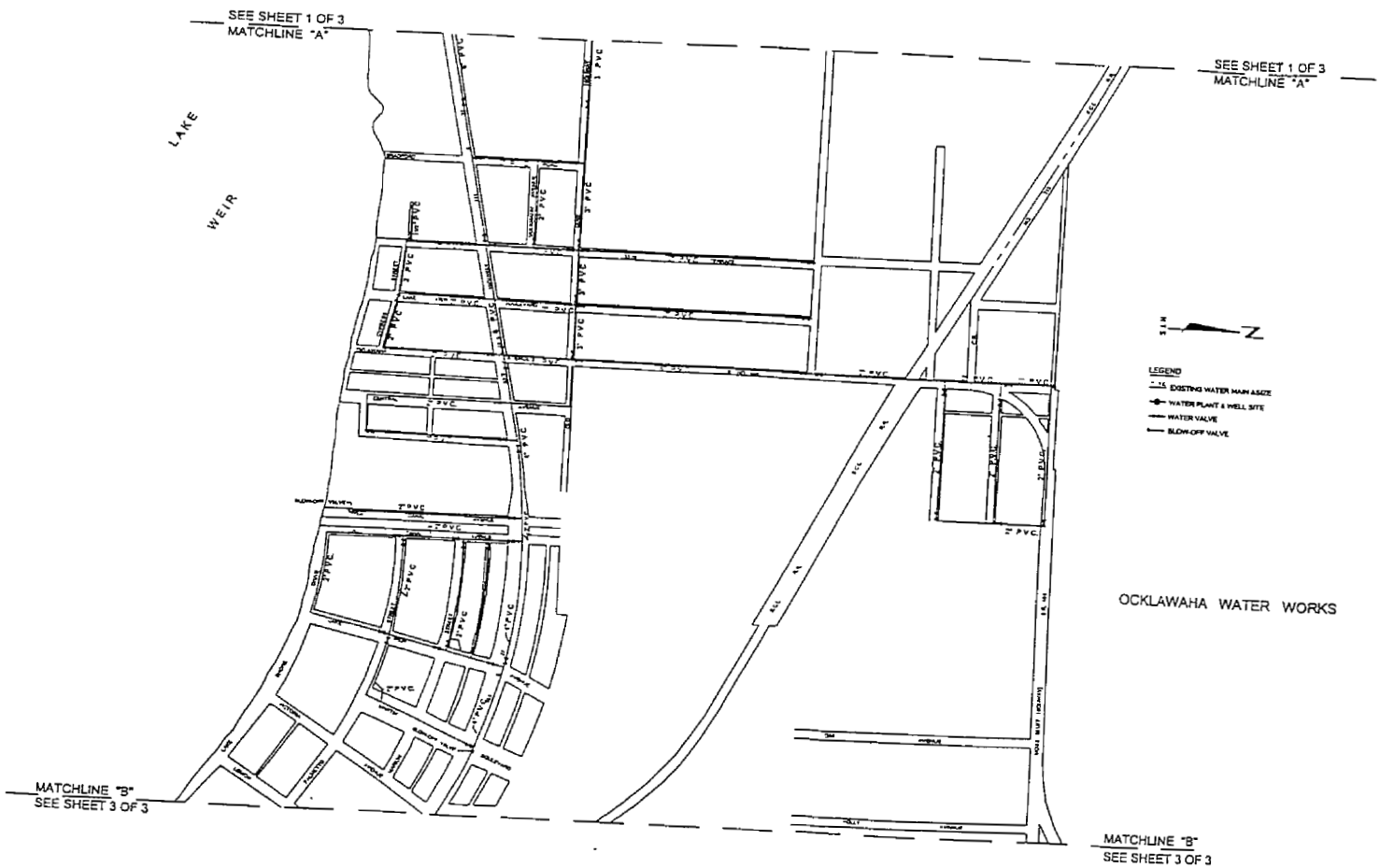


H.W. Barrineau & Associates, Inc.
8100 Southeast 115th St. Suite 102
Ocala, Florida 34472
Fax (352) 620-0588
(352) 620-0577

FACILITY WATER SYSTEM
OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRW	CHK	DATE	DESCRIPTION
SAS	Pam	19 JUL 99	ORIGINAL ISSUE

Project No. 9838-02



H. W. DARRINEAU & ASSOCIATES, INC.
1700 SOUTHEAST 17TH ST., SUITE 801 OCALA, FLORIDA 34471
PH. (352) 840-8888
FAX (352) 840-9774

FACILITY WATER SYSTEM

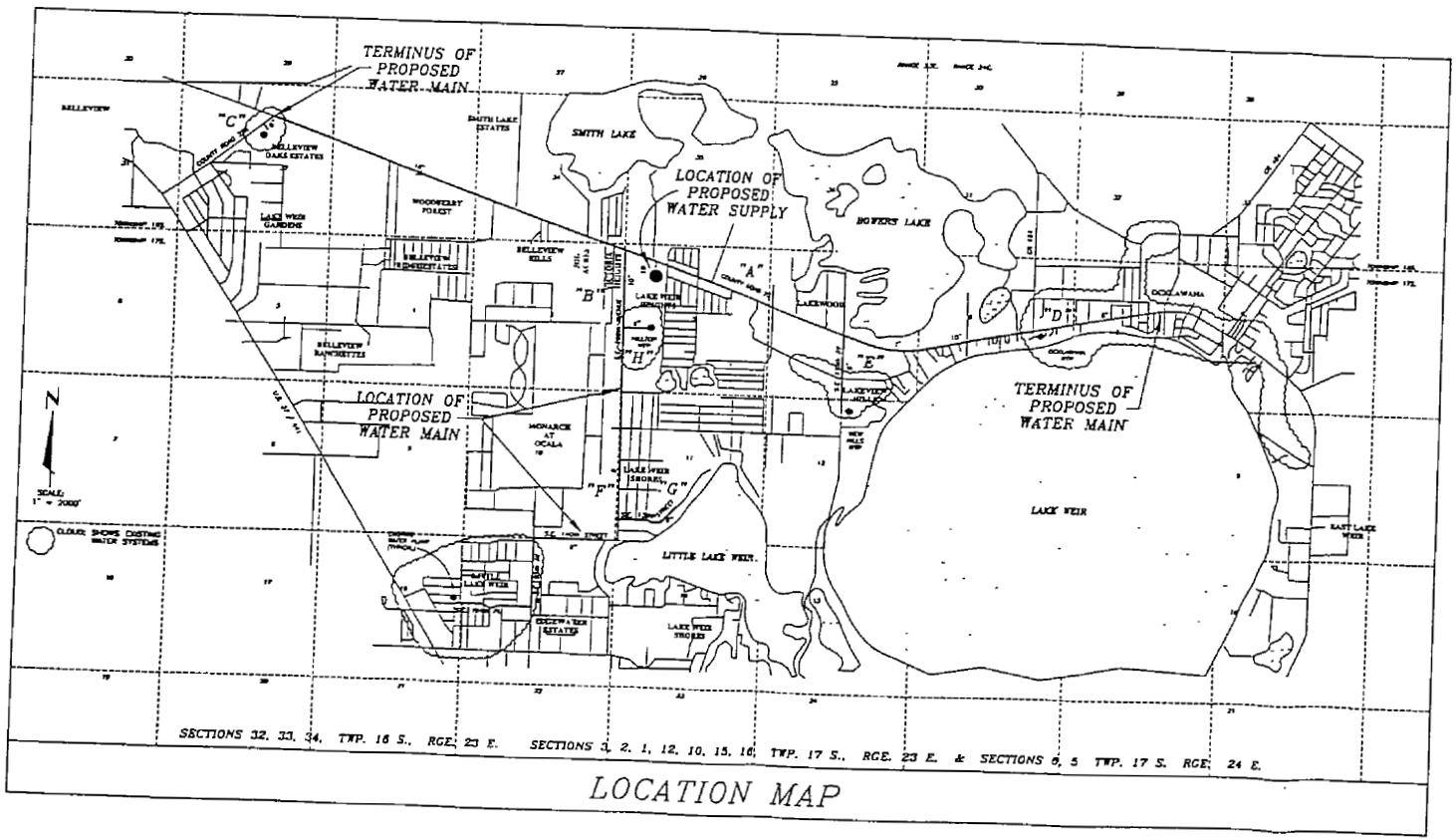
OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SKG	RJH	15 JAN 99	ORIGINAL ISSUE

Project No. 9836-03

Exhibit B

PRELIMINARY ENGINEERING STUDY
FOR
SUNSHINE UTILITIES, INC.



LOCATION MAP

PREPARED BY.
H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th STREET, SUITE 502
OCALA, FLORIDA 34471 (352) 840-8774

COVER SHEET
SHEET 1 OF 1
DATE: 10-25-96
REV: 6-20-98
REV: 7-7-98

Exhibit C

LEGALS

NOTICE OF ACTION

Notice is hereby given that the Marion County Code Enforcement is taking action pursuant to Marion County Ordinance 95-38, S.B.C., Chapter 1, Section 103, and is notifying Pamela Call, whose mailing address is 9284 SE 143rd Place, Summerfield, FL 34491-3574, who owns parcel #4593-024-007, LEGAL DESCRIPTION: SEC 15 TWP 17 RGE 23 PLAT BOOK G PAGE 092 LITTLE LAKE WEIR SUBDIVISION FIRST ADD BLK X LOT 7, with the Clerk of the Circuit Court, of the proposed destruction of an unsafe structure and proposed county lien after thirty (30) days from the date of this notice unless an appeal is filed, and hereby instruct her to contact the Marion County Code Enforcement at 3230 SE Maricamp Road, Ocala, FL 34471, (352) 694-0078, concerning the above code violation, case #1961-98JR. Dated February 16, 1999. An appeal to this notice should be addressed to the Marion County Code Enforcement Director such appeals in writing and filed with the Code Enforcement Director within thirty (30) days from the date of this notice. Failure to appeal in the time specified will constitute a waiver of all rights to an Administrative Hearing.

No. 171999 - February 16, 23; March 2, 9, 1999

NOTICE OF SCHOOL BOARD MEETING

Notice is hereby given that the School Board of Marion County, will meet on Tuesday, March 9, 1999, at 6:30 p.m., at the School Board Administration Office, 512 S. E. Third Street, Ocala, Florida 34471. The meeting will be published in an agenda seven days prior to the meeting. The agenda may be obtained at the administration office between the hours of 8:00 a.m. and 5:00 p.m.

Persons wishing to address the Board should register with the Chairman prior to 6:45 p.m.

Any person deciding to appeal any decision made by the Board at the meeting will need a record of the proceedings, and, for such purpose, may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and evidence on which the appeal is to be based.

No. 175015 - March 2, 1999

NOTICE OF SALE

TO: Keith McMichael #412
Kenneth Creese #242
Charles Long #538

You are notified that the property stored by you with
All Purpose Self Storage
6601 W. Hwy 40
Ocala, FL 34482
believed to be Household & Misc. items will be sold to the highest bidder for cash at the above address on March 15, 1999 at the hour of 11:00 A.M. to satisfy rental in the amount of
$241.74 #412
$209.94 #242
$209.94 #538
We reserve the right to refuse any and all bids.

No. 175054 - March 2, 9, 1999

Public Hearing Notice

Sunshine Utilities of Central Florida, Inc. is applying to Florida Department for Environmental Protection Bureau of Water Facilities Funding for a grant/loan for water system improvements. These funds will be used for the following described project:

The project area includes the southern part of the County between the City of Belleview, the Town of Ocklawaha and Lake Weir. This area is generally described as east of U.S. 441/27, south of Belleview-Candler Highway, south of State Road 464 (Maricamp Road), north of County Road 42 (Sunset Harbor Road) and north and west of Lake Weir.

Sunshine Utilities proposes to consolidate existing water systems in the project area into a single water system served by one water supply, treatment and storage system. To consolidate these systems, a new water supply and treatment facility will be required as well as a network of new water mains installed to the areas currently served by the existing water systems. Additional information regarding specific activities that may be undertaken will be provided at the Public Hearing.

The Public Hearing to receive citizen views concerning the project will be held at the Masonic Lodge, 5871 S. E. Baseline Road, Belleview, Florida at 9:30 AM on March 9, 1999. For information concerning the Public Hearing contact Ms. Pamela Christmas at 352-347-8228. The Public Hearing is being conducted in a handicapped acessible location. Any handicapped person requiring an interpreter for the hearing impaired or visually impaired should contact Ms. Pamela Christmas at least five (5) calendar days prior top the meeting and in interpreter will be provided. Any handicapped person requiring special accommodation at this meeting should contact Ms. Pamela Christmas at least five (5) calendar days prior to the meeting.

No. 175175 - March 2, 1999

NOTICE OF INTENTION TO CONSIDER ADOPTION OF AN ORDINANCE

NOTICE IS HEREBY GIVEN THAT THE BOARD OF COUNTY COMMISSIONERS OF MARION COUNTY, FLORIDA, WILL HOLD A PUBLIC HEARING FOR THE PURPOSE OF CONSIDERING THE ADOPTION OF A PROPOSED ORDINANCE APPROVING SPECIAL USE PERMITS AND/OR THE REZONING OF VARIOUS PARCELS. THE TITLE OF THE

Public Meeting Minutes
March 11, 1999

Called meeting to order at 9:30 a.m., March 9, 1999 to discuss water facilities plan of Sunshine Utilities and receive public comment and/or questions.

Those present included Pamela Christmas, manager, Sunshine Utilities and Hal W. Barrineau of H.W. Barrineau & Associates, Inc.

Public Hearing

Project location map was available for viewing. A project narrative was available for handout, copy attached.

9:50 a.m. meeting was adjourned.

H..W. Barrineau, P.E.

Sunshine Utilities Regional Water System
Used and Useful

30-Apr-01

Water Plant

1. Determine the average daily demand of the five maximum days of the maximum month

	ADD
Ocklawaha	118,600 GPD
Hilltop	43,740 GPD
Belleview Oaks	103,680 GPD
Lakeview Hills	31,820 GPD
Little Lake Weir	81,940 GPD
Total average daily demand for all systems	379,780 GPD

2 Determine the average daily demand adjusted for growth allowance.

Year	ADD	Growth
2000	379,780 GPD	
2001	391,173 GPD	3%
2002	402,909 GPD	3%
2003	414,996 GPD	3%
2004	427,446 GPD	3%
2005	440,269 GPD	3%

Total average daily demand allowing for growth allowance 440,269 GPD

3. Add the Marion County fire flow requirement for private utilities where the building separation is between 0' - 30' (1,000 GPM for 2 hours at a minimum of 20psi.).

Total average daily demand allowing for growth allowance	440,269 GPD
Marion County required fire flow	120,000 GPD
Total average daily demand adjusted for fire flow	560,269 GPD

4. Subtract the unaccounted for water within the system.

Total average daily demand adjusted for fire flow	560,269 GPD
Unaccounted water (0.0%)	0 GPD
Total average daily demand adjusted for unaccounted water	560,269 GPD

5. Total *Used and Useful* system demand (TSD) **560,269 GPD**

6. Determine the well capacity with the largest well off-line while operating the remaining wells pumps for a twelve hour duration.

Well No.1 (ON-LINE at 330 GPM for 12 hours)	237,600 GPD
Well No 2 (OFF-LINE 490 GPM)	0 GPD
Well capacity	237,600 GPD

7. Determine the storage tank capacity.

Storage tank capacity	500,000

8. Total *Used and Useful* system supply (TSS) **737,600 GPD**
(Well capacity + storage tank capacity)

9. Total *Used and Useful* system percentage of the water plant
(TSD/TSS) x 100% **76.0%**

Sunshine Utilities Regional Water System
Used and Useful

30-Apr-01

Water Distribution

1. Determine the total number of lots served by the water distribution system

(One lot = one ERC)	ERC
Hilltop	44
Lakeview Hills	57
Little Lake Weir	353
Belleview Oaks	82
Ocklawaha	309
Total ERCs served by the existing systems	845

2. Determine the ERCs served adjusted for growth allowance.

Year	ERC	Growth
2000	845	
2001	870	3%
2002	896	3%
2003	923	3%
2004	951	3%
2005	980	3%

Total ERCs served allowing for growth allowance (ERCserv)	980

2. Determine the total number of lots capable of being served by the water distribution system.
Note: These lots include vacant lots and residences with private wells. Not included are residences served by other water systems.

(One lot = one ERC)	ERC
Hilltop	63
Lakeview Hills	81
Little Lake Weir	787
Belleview Oaks	95
Ocklawaha	553
Lots along County Road 25	131
Lake Weir Shores adjacent to SE 100th Avenue	102
Private homes along SE 144th Place (and 145th Place)	42
Private homes along SE 138th Place Road	35
Total ERCs available for service by the system (ERCavail)	1889

9. Total *Used and Useful* system percentage of the water distribution system.
(ERCserv/ERCavail) x 100% **51.9%**

H. W. BARRINEAU & ASSOCIATES, INC.
Time by Job Detail

6/25/99 through 7/14/01

Sunshine Utilities Regional Water System

INVOICE SUMMARY

Project #	Invoice Date	Invoice #	Invoice Total	Activity Period	Name	Rate	Hours	TOTAL	Description
9636-02	6/25/99	1330	$1,799.64	5/16 - 6/19/01	SCOTT OLSCHEWSKE	30.00	32.00		Drafting of water system maps
					CURTIS LEWIS	30.00	6.75		Drafting of water system maps
					Total CAD Draftsman		38.75	$1,162.50	
					BOB WATERSTON	90.00	5.75		Coord. & field verify of w.s. mapping
					Total Engineer II:		5.75	517.50	
					Other Expenses:				
					Mileage: 31 miles @ $0.35			10.85	
					Visual Logic: Conversions, scans & print			108.79	
					TOTAL:			$1,799.64	
9636-02	7/26/99	1420	$736.25	6/20 - 7/17/99	SCOTT OLSCHEWSKE	35.00	11.75		Drafting of water system maps
					Total CAD Draftsman		11.75	$411.25	
					BOB WATERSTON	90.00	2.75		Coord. & field verify of w.s. mapping
					TIM BRENNAN	90.00	0 50		Scanning of system maps
					Total Engineer II:		3 25	292.50	
					DOUG VANDEURSEN	60.00	0.25		Coord. & field verify of w.s. mapping
					Total Engineer Intern:		0.25	15.00	
					HILDA GRANT	35.00	0.50		Reproduce and copy system maps
					Total Administrative:		0 50	17.50	
					TOTAL:			$736 25	
9636-02	8/23/99	1482	$415.00	7/18 - 8/14/99	SCOTT OLSCHEWSKE	35 00	3.50		Drafting of water system maps
					Total CAD Draftsman		3.50	$122.50	

Sunshine Utilities Regional Water System

INVOICE SUMMARY

Project #	Invoice Date	Invoice #	Invoice Total	Activity Period	Name	Rate	Hours	TOTAL	Description
					BOB WATERSTON	90.00	3.25		Coord. & field verify of w.s. mapping
					Total Engineer II:		3.25	292.50	
					TOTAL:			$415 00	
9636-01	12/21/99	1667	$311.20	11/14 - 12/11/99	HILDA GRANT	35.00	4.75		Reproduce 20 copies Water Facility Plan
					Total Administrative:		4.75	$166.25	
					Other Expenses:				
					Reproduction			132.40	
					Shipping			12.55	
					TOTAL:			$311.20	
9756-00	3/18/00	1890	$6,360.18	thru 3/11/00	HILDA GRANT	35.00	1.50		Reproduce and copy system maps
					JEAN HARRISON	35 00	1.50		Reproduce and copy system maps
					Total Administrative:		3.00	$105.00	
					PAT RITCHEY	35.00	39.50		Drafting & Scanning of system maps
					CURTIS LEWIS	35.00	41.25		Drafting of water system maps
					SCOTT OLSCHEWSKE	35.00	11.00		Drafting of water system maps
					Total CAD Draftsman		91.75	3,211.25	
					KHEM PARMANAN	60.00	7.00		Scanning of system maps
					Total Civil Designer:		7.00	420	
					DOUG VANDEURSEN	60.00	0.50		Coordinate response to PSC letter
					Total Engineer Intern:		0.50	30 00	
					MURRAY BLACKMAN	45.00	51.00		Coord. & field verify of w.s. mapping
					Total Engineering Technician:		51.00	2,295.00	
					HAL BARRINEAU	75.00	1.50		Supervision and review
					Total Registered Engineer:		1.50	112 50	
					Other Expenses:				

Sunshine Utilities Regional Water System

INVOICE SUMMARY

Project #	Invoice Date	Invoice #	Invoice Total	Activity Period	Name	Rate	Hours	TOTAL	Description
					Mileage: 81 miles @ $0.35			28.35	
					Reproduction			158.08	
					TOTAL:			$6,360.18	
9636-01	2/8/01	2458	$4,945.20	12/31 - 2/3/01	LORETTA GOINS	35.00	1.00		Typing response to comments
					Total Administrative:		1.00	$35.00	
					MURRAY BLACKMAN	60.00	33.25		Separate Regional W S into phases.
					Total Engineer Intern:		33.25	1,995.00	
					HAL BARRINEAU	100.00	27.50		Supervision, review and meeting at PSC
					Total Registered Engineer:		27.50	2,750.00	
					Other Expenses:				
					Mileage: 472 miles @ $0.35			165.20	
					TOTAL:			$4,945.20	
9636-01	3/9/01	2561	$3,310.90	2/04 - 3/03/01	JILL PIEKIEL	35.00	0.75		Prepared trnsmittals, faxes & mail docs
					LORETTA GOINS	35.00	0.75		Prepared trnsmittals, faxes & mail docs
					Total Administrative:		1.50	$52.50	
					MURRAY BLACKMAN	60.00	32.75		Coord w/ PSC on Used & Useful, meeting
					Total Engineer Intern II:		32.75	1,965.00	
					HAL BARRINEAU	100.00	8.00		Supervision, meeting with S.U., conf. Calls
					Total Registered Engineer:		8.00	800 00	
					DOUG VANDEURSEN	75.00	6.00		Coord w/ PSC on Used & Useful, meeting
							6.00	450	
					Other Expenses:				
					Mileage: 124 miles @ $0.35			43.40	
					TOTAL:			$3,310.90	
9636.01	4/6/01	2611	$3,226.80	3/4 - 3/31/01	JILL PIEKIEL	35.00	0.50		Prep trnsmittals, faxes & mail docs

Sunshine Utilities Regional Water System

INVOICE SUMMARY

Project #	Invoice Date	Invoice #	Invoice Total	Activity Period	Name	Rate	Hours	TOTAL	Description
					LORETTA GOINS	35.00	1.75		Prep trnsmittals, faxes & mail docs
					PAT RITCHEY	35.00	0.50		Plot location map
					Total Administrative:		2.75	$96.25	
					MURRAY BLACKMAN	60.00	31.50		Calc Used & Useful
					Total Engineer Intern II:		31.50	1,890.00	
					DAVIS DINKINS	75 00	1.50		Field verification of system map
					DOUG VANDEURSEN	75.00	1.25		Calc Used & Useful
					Total Engineer Intern I:		2.75	206.25	
					HAL BARRINEAU	100.00	10.00		Meet w/ MC staff, supervision, review
					Total Registered Engineer:		10.00	1,000.00	
					Other Expenses:				
					Mileage: 98 miles @ $0.35			34.30	
					TOTAL:			$3,226.80	
9636-01	5/8/01	2695	$3,876.25	4/1 - 4/28/01	JILL PIEKIEL	35.00	0.25		Coord meetings
					Total Administrative:		0.25	$8.75	
					MURRAY BLACKMAN	60.00	36.75		Update WFP
					Total Engineer Intern II:		36.75	2,205.00	
					DOUG VANDEURSEN	75.00	0.50		Update WFP
					Total Engineer Intern I:		0.50	37.50	
					HAL BARRINEAU	100.00	16.25		Super, review with SU, accountant, etc.
							16.25	1,625.00	
					TOTAL:			$3,876.25	
9636-01	6/20/01	2788	$4,085.34	4/29 - 6/09/01	JILL PIEKIEL	35.00	3.50		Copy, package and transmit WFP
					LORETTA GOINS	35.00	9.00		Copy, package and transmit WFP
					EMILY FRY	35.00	3.75		Copy, package and transmit WFP
					JONATHAN WHALEN	35.00	0.50		Run prints for WFP

Sunshine Utilities Regional Water System

INVOICE SUMMARY

Project #	Invoice Date	Invoice #	Invoice Total	Activity Period	Name	Rate	Hours	TOTAL	Description
					Total Administrative:		16 75	586.25	
					MURRAY BLACKMAN	60.00	46.25		Update WFP, Used & Useful
					Total Engineer Intern II:		46.25	2,775.00	
					HAL BARRINEAU	100.00	6.50		Supervision & review
					Total Registered Engineer:		6.50	650	
					Other Expenses:				
					Mileage: 127 miles @ $0.35			44.45	
					Shipping			29.64	
					TOTAL:			$4,085.34	
9636-01	7/18/01	2861	$234.95	6/10 - 7/14/01	JILL PIEKIEL	35.00	1.50		Telecons FDEP, Xmit to FDEP
					KELLY HULIT	35.00	1.25		Telecons FDEP, Xmit to FDEP
					Total Administrative:		2.75	96.25	
					MURRAY BLACKMAN	60.00	1.50		Public hearing meeting coordination
					Total Engineer Intern II:		1.50	90.00	
					JONATHAN WHALEN	35.00	1.00		Run blueprints
					Total CAD Draftsman		1.00	35.00	
					Other Expenses:				
					Mileage: 3 miles @ $0.35			1.05	
					Shipping			12.65	
					TOTAL:			$234 95	

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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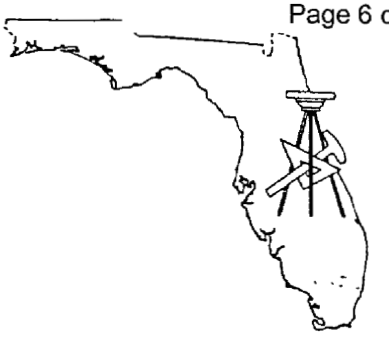
(352) 840-9774 *Fax (352) 840-9588*



PD
11/30/99
23440

Invoice

BILL TO
MS. PAMELA CHRISTMAS SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
6/25/1999	1330

DESCRIPTION	AMOUNT
9636-02 SUNSHINE UTILITIES REGIONAL WATER SYSTEM SUBDIVISION LAYOUTS	
FOR SERVICES RENDERED THROUGH JUNE 19, 1999 IN CONNECTION WITH THE PREPARATION OF INDIVIDUAL SUBDIVISION WATER DISTRIBUTION MAPS FOR USE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE REVOLVING LOAN PROGRAM.	
SALARIES:	
CAD DRAFTSMAN: 38.75 HOURS @ $30.00	1,162.50
REGISTERED ENGINEER: 5.75 HOURS @ $90.00	517.50
EXPENSES:	
MILEAGE: 31 MILES @ $0.35	10.85
EXPENDITURES ON BEHALF OF THE PROJECT: VISUAL LOGIC	108.79
Total	$1,799.64

H. W. Barrineau and Associates, Inc.

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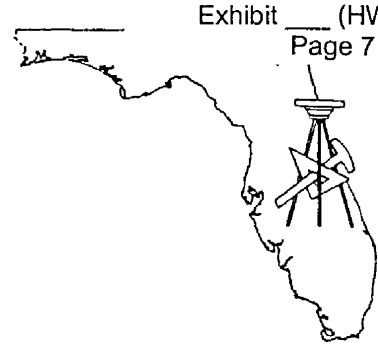

PD
11/29/99
23440

Invoice

BILL TO
MS. PAMELA CHRISTMAS SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
7/26/1999	1420

DESCRIPTION	AMOUNT
9636-02 SUNSHINE UTILITIES REGIONAL WATER SYSTEM SUBDIVISION LAYOUTS	
FOR SERVICES RENDERED FROM JUNE 20, 1999 THROUGH JULY 17, 1999 IN CONNECTION WITH THE PREPARATION OF INDIVIDUAL WATER DISTRIBUTION MAPS FOR USE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE REVOLVING LOAN PROGRAM.	
SALARIES:	
CAD DRAFTSMAN: 11.75 HOURS @ $35.00	411.25
ENGINEER INTERN: 0.25 HOURS @ $60.0	15.00
REGISTERED ENGINEER: 3.25 HOURS @ $90.00	292.50
ADMINISTRATIVE I: 0.5 HOURS @ $35.00	17.50
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.	**Total** $736.25

H. W. Barrineau and Associates, Inc.

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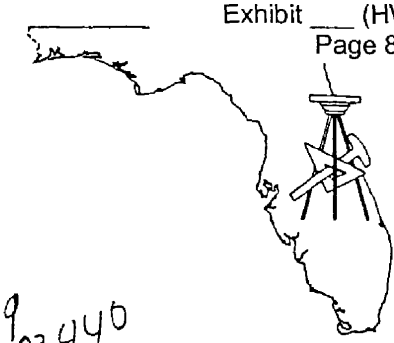

P.D. 11/29/99 #23440

Invoice

BILL TO
MS. PAMELA CHRISTMAS SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
8/23/1999	1482

DESCRIPTION	AMOUNT
9636-02 SUNSHINE UTILITIES REGIONAL WATER SYSTEM SUBDIVISION LAYOUTS	
FOR SERVICES RENDERED FROM JULY 18, 1999 THROUGH AUGUST 14, 1999 IN CONNECTION WITH THE PREPARATION OF INDIVIDUAL WATER DISTRIBUTION MAPS FOR USE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE REVOLVING LOAN PROGRAM.	
SALARIES:	
CAD DRAFTSMAN: 3.5 HOURS @ $35.00	122.50
REGISTERED ENGINEER: 3.25 HOURS @ $90.00	292.50
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.	**Total** $415.00

H. W. Barrineau and Associates, Inc.

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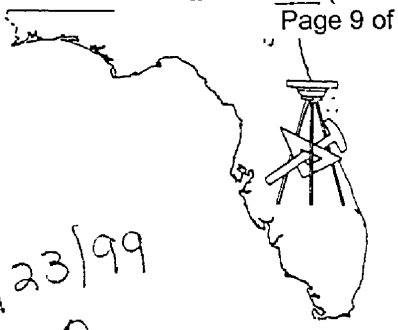

CC
v date 12/23/99
23560

Invoice

BILL TO
MR. JAMES HODGES SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
12/21/1999	1667

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR ADDITIONAL SERVICES RENDERED FROM NOVEMBER 14, 1999 THROUGH DECEMBER 11, 1999 IN CONNECTION WITH ASSISTANCE PROVIDED TO ACCOUNTANT FOR PSC RATE CASE.	
PREPARE AND MAIL 20 COPIES OF RWS WATER FACILITIES PLAN TO D. BRUCE MAY @ HOLLAND & KNIGHT.	
SALARIES: ADMINISTRATIVE: 4.75 HOURS @ $35.00	166.25
EXPENSES: EXPENDITURES ON BEHALF OF THE PROJECT: REPRODUCTION & SHIPPING	144.95

HAPPY HOLIDAYS!!!

Total $311.20

H. W. Barrineau and Associates, Inc.

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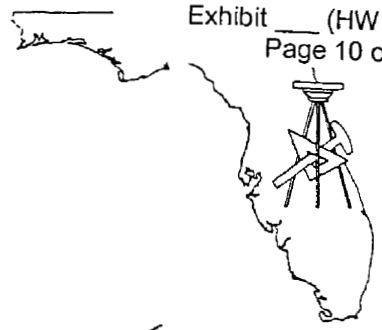

Gd 4/11/2000 #23955

Invoice

BILL TO
MR. JAMES HODGES SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
3/18/2000	1890

DESCRIPTION	AMOUNT
9756-00 SUNSHINE UTILITIES GENERAL ENGINEERING SERVICES	
FOR SERVICES RENDERED THROUGH MARCH 11, 2000 IN CONNECTION WITH THE PREPARATION OF DISTRIBUTION SYSTEM MAPS FOR PUBLIC SERVICE COMMISSION RATE CASE.	
SALARIES:	
ADMINISTRATIVE: 3.0 HOURS @ $35.00	105.00
CAD DRAFTSMAN: 91.75 HOURS @ $35.00	3,211.25
CIVIL DESIGNER: 7.0 HOURS @ $60.00	420.00
ENGINEER INTERN: 0.5 HOURS @ $60.00	30.00
ENGINEERING TECHNICIAN: 51.0 HOURS @ $45.00	2,295.00
REGISTERED ENGINEER: 1.5 HOURS @ $75.00	112.50
EXPENSES:	
MILEAGE: 81 MILES @ $0.35	28.35
EXPENDITURES ON BEHALF OF THE PROJECT: REPRODUCTION	158.08
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.	**Total** $6,360.18

J. W. Barrineau and Associates, Inc.

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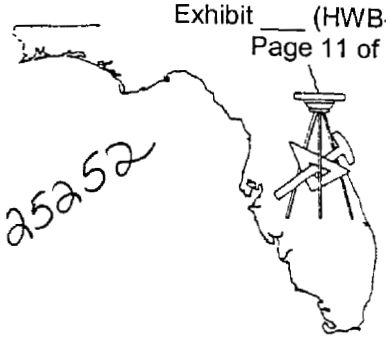

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pd
2/26/01

pd

Invoice

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

DATE	INVOICE #
2/8/2001	2458

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR ADDITIONAL SERVICES RENDERED FROM DECEMBER 31, 2000 THROUGH FEBRUARY 3, 2001 IN CONNECTION WITH THE CONSUMPIVE USE PERMIT APPLICATION, GROUNDWATER MODELING ANALYSIS OF PROPOSED WELLS, PREPARATION OF WATER AUDIT AND MEETINGS WITH CLIENT, ATTORNEY'S AND PUBLIC SERVICE COMMISSION.	
SALARIES:	
ADMINISTRATIVE: 1.0 HOURS @ $35.00	35.00
ENGINEER INTERN 2: 33.25 HOURS @ $60.00	1,995.00
REGISTERED ENGINEER: 27.5 HOURS @ $100.00	2,750.00
EXPENSES:	
MILEAGE: 472 MILES @ $0.35	165.20

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.

Total $4,945.20

H. W. Barrineau and Associates, Inc.

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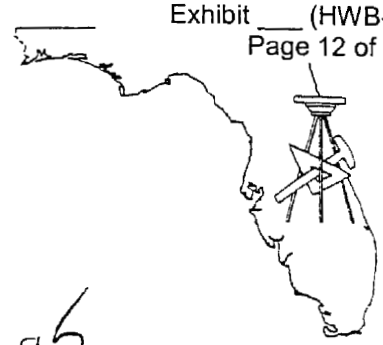

PD 4/2/01 #25385

Invoice

BILL TO
MRS. PAM CHRISTMAS SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

DATE	INVOICE #
3/9/2001	2561

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR ADDITIONAL SERVICES RENDERED FROM FEBRUARY 4, 2001 THROUGH MARCH 3, 2001 IN CONNECTION WITH THE ASSESSMENT OF MARION COUNTY WATER SYSTEMS AND UPDATING WATER FACILITIES PLAN.	
SALARIES:	
ADMINISTRATIVE: 1.5 HOURS @ $35.00	**52.50**
ENGINEER INTERN 2: 32.75 HOURS @ $60.00	**1,965.00**
REGISTERED ENGINEER: 8.0 HOURS @ $100.00	**800.00**
ENGINEER INTERN 1: 6.0 HOURS @ $75.00	**450.00**
EXPENSES:	
MILEAGE: 124 MILES @ $0.35	**43.40**
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**	**Total** **$3,310.90**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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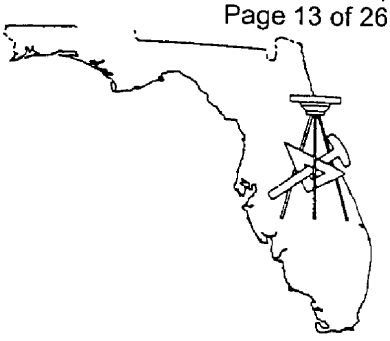


BILL TO
MRS. PAM CHRISTMAS **SUNSHINE UTILITIES** **10230 SE HWY 25** **BELLEVIEW, FL 34420**

Invoice

DATE	INVOICE #
4/6/2001	**2611**

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM-- ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM MARCH 4, 2001 THROUGH MARCH 31, 2001 IN CONNECTION WITH THE ASSESSMENT OF MARION COUNTY WATER SYSTEMS AND UPDATING WATER FACILITIES PLAN.	
SALARIES:	
ADMINISTRATIVE: 2.75 HOURS @ $35.00	**96.25**
ENGINEER INTERN 2: 31.5 HOURS @ $60.00	**1,890.00**
ENGINEER INTERN 1: 2.75 HOURS @ $75.00	**206.25**
REGISTERED ENGINEER: 10.0 HOURS @ $100.00	**1,000.00**
EXPENSES:	
MILEAGE: 98 MILES @ $0.35	**34.30**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$3,226.80**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

2100 S.E. 17th Street, Suite 802 *Ocala, Florida 34471-4182*
(352) 840-9774 *Fax (352) 840-9588*

BILL TO
MRS. PAM CHRISTMAS **SUNSHINE UTILITIES** **10230 SE HWY 25** **BELLEVIEW, FL 34420**

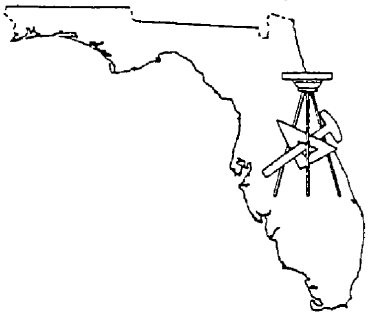
Invoice

DATE	INVOICE #
5/8/2001	**2695**

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM– ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM APRIL 1, 2001 THROUGH APRIL 28, 2001 IN CONNECTION WITH THE ASSESSMENT OF MARION COUNTY WATER SYSTEMS AND UPDATING WATER FACILITIES PLAN.	
SALARIES:	
ADMINISTRATIVE: 0.25 HOURS @ $35.00	**8.75**
ENGINEER INTERN 2: 36.75 HOURS @ $60.00	**2,205.00**
ENGINEER INTERN 1: 0.5 HOURS @ $75.00	**37.50**
REGISTERED ENGINEER: 16.25 HOURS @ $100.00	**1,625.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**	**Total**	**$3,876.2**

H. W. Barrineau and Associates, Inc.
Civil • Environmental Engineers & Planners
1321 S.E. 25th Loop, Suite 102 Ocala, FL 34471-6090
(352) 840-9774 Fax (352) 840-0332



Invoice

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

DATE	INVOICE #
6/20/2001	2788

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR ADDITIONAL SERVICES RENDERED FROM APRIL 29, 2001 THROUGH JUNE 9, 2001 IN CONNECTION WITH THE ASSESSMENT OF MARION COUNTY WATER SYSTEMS AND UPDATING WATER FACILITIES PLAN.	
SALARIES:	
ADMINISTRATIVE: 16.75 HOURS @ $35.00	586.25
ENGINEER INTERN 2: 46.25 HOURS @ $60.00	2,775.00
REGISTERED ENGINEER: 6.5 HOURS @ $100.00	650.00
EXPENSES:	
MILEAGE: 127 MILES @ $0.35	44.45
EXPENDITURES ON BEHALF OF THE PROJECT: SHIPPING	29.64
PLEASE REMIT PAYMENT TO OUR NEW ADDRESS SHOWN ABOVE. THANK YOU.	

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.

Total $4,085.34

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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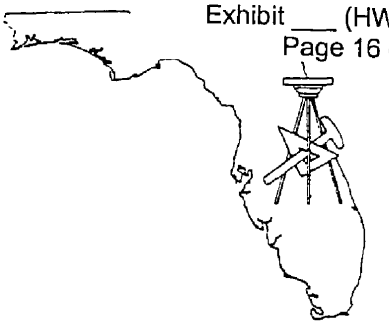

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
7/18/2001	**2861**

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM-- ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM JUNE 10, 2001 THROUGH JULY 14, 2001 IN CONNECTION WITH THE ASSESSMENT OF MARION COUNTY WATER SYSTEMS AND UPDATING WATER FACILITIES PLAN.	
SALARIES:	
ADMINISTRATIVE: 2.75 HOURS @ $35.00	**96.25**
ENGINEER INTERN 2: 1.5 HOURS @ $60.00	**90.00**
CAD DRAFTSMAN: 1.0 HOURS @ $35.00	**35.00**
EXPENSES:	
MILEAGE: 3 MILES @ $0.35	**1.05**
EXPENDITURES ON BEHALF OF THE PROJECT: SHIPPING	**12.65**
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**	**Total** **$234.95**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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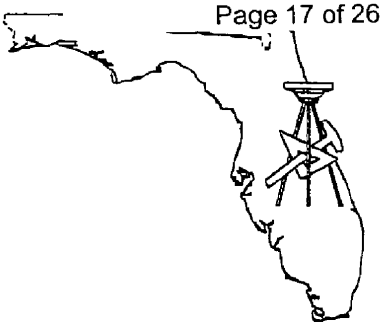
(352) 840-9774 *Fax (352) 840-0332*



BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
8/17/2001	**2938**

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM– ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM JULY 15, 2001 THROUGH AUGUST 11, 2001 IN CONNECTION WITH THE REVIEW OF PROPOSED REZONING APPLICATION FOR PROPERTY ADJACENT TO WELL SITE AND RESEARCH OF POTENTIAL HAZARDS.	
ENGINEER INTERN 2: 5.25 HOURS @ $60.00	**315.00**
REGISTERED ENGINEER: 1.5 HOURS @ $100.00	**150.00**
FOR ADDITIONAL SERVICES RENDERED FROM JULY 15, 2001 THROUGH AUGUST 11, 2001 IN CONNECTION WITH THE PREPARATION OF WORK ACTIVITY DETAILS FOR PSC RATE CASE AND TRANSMITTAL OF COPIES OF WATER FACILITIES PLAN TO FDEP.	
ADMINISTRATIVE: 7.75 HOURS @ $35.00	**271.25**
REGISTERED ENGINEER: 3.0 HOURS @ $100.00	**300.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$1,036.25**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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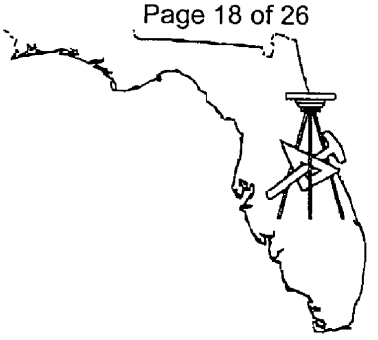


BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
9/14/2001	3030

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM– ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM AUGUST 12, 2001 THROUGH SEPTEMBER 8, 2001 IN CONNECTION WITH THE PREPARATION FOR THE PUBLIC SERVICE COMMISSION RATE CASE CUSTOMER HEARING.	
SALARIES:	
ENGINEER INTERN 2: 1.25 HOURS @ $60.00	**75.00**
FOR ADDITIONAL SERVICES RENDERED FROM AUGUST 12, 2001 THROUGH SEPTEMBER 8, 2001 IN CONNECTION WITH THE CONSUMPTIVE USE PERMIT APPLICATION AND GROUND WATER MODELING FOR ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT.	
SALARIES:	
ADMINISTRATIVE: 0.75 HOURS @ $35.00	**26.25**
ENGINEER INTERN 2: 3.25 HOURS @ $60.00	**195.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

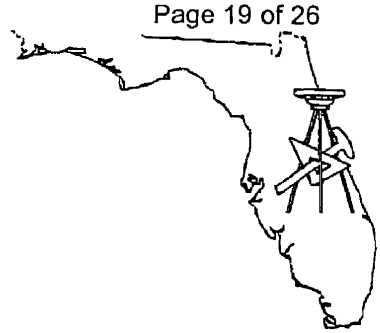
Total **$296.25**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

1321 S.E. 25th Loop, Suite 102
(352) 840-9774

Ocala, FL 34471
Fax (352) 840-0332



BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
10/10/2001	3111

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM—ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM SEPTEMBER 9, 2001 THROUGH OCTOBER 6, 2001 IN CONNECTION WITH THE CONSUMPTIVE USE PERMITTING AND GROUND WATER MODELING FOR SJRWMD.	
SALARIES:	
ADMINISTRATIVE: 0.25 HOURS @ $35.00	**8.75**
ENGINEER INTERN 2: 7.25 HOURS @ $60.00	**435.00**
REGISTERED ENGINEER: 3.0 HOURS @ $100.00	**300.00**
EXPENSES:	
EXPENDITURES ON BEHALF OF THE PROJECT: SHIPPING	**14.26**
FOR ADDITIONAL SERVICES RENDERED FROM SEPTEMBER 9, 2001 THROUGH OCTOBER 6, 2001 IN CONNECTION WITH THE PUBLIC SERVICE COMMISSION CUSTOMER HEARING.	
SALARIES:	
ADMINISTRATIVE: 1.75 HOURS @ $35.00	**61.25**
ENGINEER INTERN 1: 2.75 HOURS @ $75.00	**206.25**
ENGINEER INTERN 2: 7.0 HOURS @ $60.00	**420.00**
REGISTERED ENGINEER: 6.75 HOURS @ $100.00	**675.00**
EXPENSES:	
EXPENDITURES ON BEHALF OF THE PROJECT: BLUEPRINTS	**40.00**

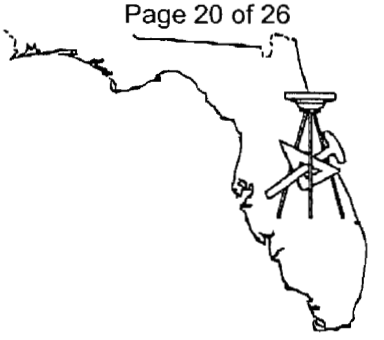
DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$2,160.51**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

1321 S.E. 25th Loop, Suite 102 Ocala, FL 34471
(352) 840-9774 Fax (352) 840-0332



BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
11/9/2001	3174

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM—ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM OCTOBER 7, 2001 THROUGH NOVEMBER 3, 2001 IN CONNECTION WITH THE CONSUMPTIVE USE PERMITTING AND PUBLIC SERVICE COMMISSION RELATED ITEMS FOR THE REGIONAL WATER SYSTEM.	
SALARIES:	
ENGINEER INTERN 2: 8.75 HOURS @ $60.00	**525.00**
REGISTERED ENGINEER: 1.0 HOURS @ $100.00	**100.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$625.00**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

1321 S.E. 25th Loop, Suite 102 *Ocala, FL 34471*
(352) 840-9774 *Fax (352) 840-0332*

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
1/9/2002	3295

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM—ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM NOVEMBER 4, 2001 THROUGH DECEMBER 29, 2001 IN CONNECTION WITH PUBLIC SERVICE COMMISSION RELATED ITEMS INCLUDING DISCUSSIONS WITH MARION COUNTY, RESEARCH OF BUILDING PERMITS, PREPARATION OF NOTICE TO DEVELOPERS AND ASSOCIATED DRAWINGS, AND ALL ASSOCIATED MEETING FOR THE REGIONAL WATER SYSTEM.	
SALARIES:	
ENGINEER INTERN 2: 64.5 HOURS @ $60.00	**3,870.00**
REGISTERED ENGINEER: 14.5 HOURS @ $100.00	**1,450.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$5,320.00**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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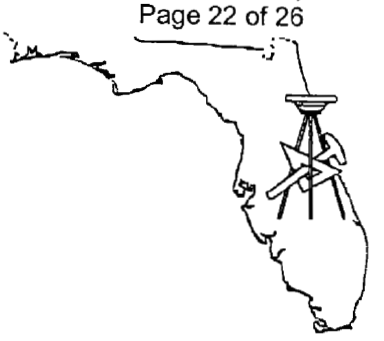

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
2/7/2002	3332

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM—ADDITIONAL SERVICES	
FOR ADDITIONAL SERVICES RENDERED FROM DECEMBER 30, 2001 THROUGH FEBRUARY 2, 2002 IN CONNECTION WITH PUBLIC SERVICE COMMISSION RELATED ITEMS INCLUDING SOLICITATION OF DEVELOPERS, DEVELOPMENT OF BUILDING PERMIT LOCATION MAPS, DISCUSSIONS WITH MARION COUNTY SOLID WASTE DEPARTMENT AND ALL ASSOCIATED MEETINGS AND CONFERENCE CALLS FOR THE REGIONAL WATER SYSTEM.	
SALARIES:	
ADMINISTRATIVE: 3.5 HOURS @ $35.00	**122.50**
ENGINEER INTERN 2: 27.75 HOURS @ $60.00	**1,665.00**
REGISTERED ENGINEER: 15.5 HOURS @ $100.00	**1,550.00**
EXPENSES:	
MILEAGE: 24 MILES @ $0.35	**8.40**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$3,345.90**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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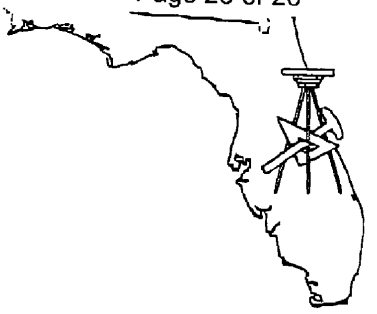

BILL TO

MS. PAMELA CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
3/7/2002	3411

DESCRIPTION	AMOUNT
9636-02 SUNSHINE UTILITIES R.W.S. SUBDIVISION LAYOUTS	
FOR SERVICES RENDERED THROUGH MARCH 2, 2002 IN CONNECTION WITH THE REVIEW AND COST PROJECTION TO PROVIDE WATER SERVICE TO 37 HOMES DESIGNATED BY THE MARION COUNTY SOLID WASTE DEPARTMENT AS CURRENTLY BEING SERVED BY POTENTIALLY CONTAMINATED WELLS IN THE LAKEVIEW HILLS AREA.	
SALARIES:	
ADMINISTRATIVE: 1.0 HOURS @ $35.00	**35.00**
ENGINEER INTERN 2: 79.0 HOURS @ $60.00	**4,740.00**
REGISTERED ENGINEER: 10.0 HOURS @ $100.00	**1,000.00**
EXPENSES:	
MILEAGE: 36 MILES @ $0.35	**12.60**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$5,787.60**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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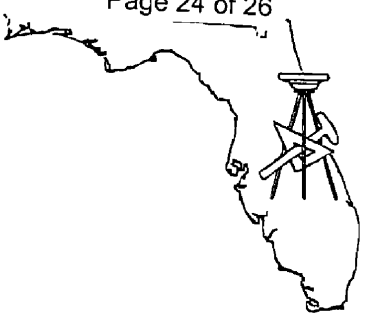

BILL TO

MS. PAMELA CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
4/9/2002	3490

DESCRIPTION	AMOUNT
9636-02 SUNSHINE UTILITIES REGIONAL WATER SYSTEM SUBDIVISION LAYOUTS	
FOR SERVICES RENDERED FROM MARCH 3, 2002 THROUGH APRIL 6, 2002 IN CONNECTION WITH THE REVIEW AND COST ANALYSIS FOR CONNECTING PRIVATE WELLS IN THE LAKEVIEW HILLS AREA TO THE SUNSHINE UTILITIES REGIONAL WATER SYSTEM.	
SALARIES:	
ENGINEER INTERN 2: 1.0 HOURS @ $60.00	**60.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$60.00**

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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Ocala, FL 34471
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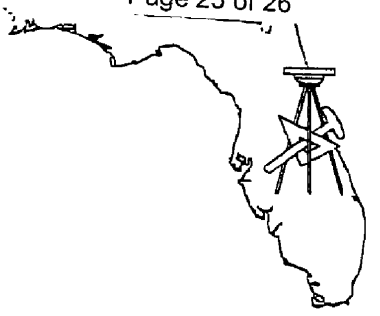

BILL TO
MRS. PAM CHRISTMAS SUNSHINE UTILITIES 10230 SE HWY 25 BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
5/9/2002	3544

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR SERVICES RENDERED FROM APRIL 7, 2002 THROUGH MAY 4, 2002 IN CONNECTION WITH THE PUBLIC SERVICE COMMISSION RELATED ITEMS FOR THE REGIONAL WATER SYSTEM.	
SALARIES:	
ADMINISTRATIVE: 0.25 HOURS @ $35.00	8.75
ENGINEER INTERN 1: 0.25 HOURS @ $75.00	18.75
ENGINEER INTERN 2: 18.5 HOURS @ $60.00	1,110.00
REGISTERED ENGINEER: 10.5 HOURS @ $100.00	1,050.00
EXPENSES:	
MILEAGE: 372 MILES @ $0.35	130.20

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM** THANK YOU.

Total $2,317.70

H. W. Barrineau and Associates, Inc.

Civil • Environmental Engineers & Planners

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Ocala, FL 34471
(352) 840-9774
Fax (352) 840-0332

BILL TO

MRS. PAM CHRISTMAS
SUNSHINE UTILITIES
10230 SE HWY 25
BELLEVIEW, FL 34420

Invoice

DATE	INVOICE #
6/18/2002	3614

DESCRIPTION	AMOUNT
9636-01 SUNSHINE UTILITIES REGIONAL WATER SYSTEM	
FOR ADDITIONAL SERVICES RENDERED FROM MAY 4, 2002 THROUGH JUNE 8, 2002 IN CONNECTION WITH PUBLIC SERVICE COMMISSION RELATED ITEMS FOR THE SUNSHINE UTILITIES REGIONAL WATER SYSTEM.	
SALARIES:	
ADMINISTRATIVE: 1.25 HOURS @ $35.00	**43.75**
ENGINEER INTERN 2: 4.5 HOURS @ $60.00	**270.00**

DUE UPON RECEIPT. UNPAID BALANCE SUBJECT TO 1.5% PER MONTH. **$5.00 MINIMUM THANK YOU.**

Total **$313.75**