

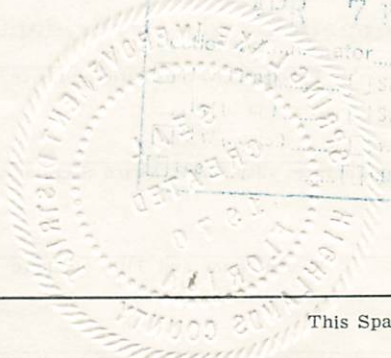
This Space For Use By Approving Agency

STATE OF FLORIDA
DEPARTMENT of HEALTH and REHABILITATIVE SERVICES
DIVISION OF HEALTH

Post Office Box 210
Jacksonville, Florida 32201

**APPLICATION FOR APPROVAL OF PLANS &
SPECIFICATIONS FOR PUBLIC WATER
SUPPLY SYSTEM**

Professional Engineering
WATER SUPPLY SECTION
RECEIVED
APR 7 1972
Ref. To:
SWP (Plans).....
SWP (Specs).....
SWP.....
Other.....



This Space For Use By Approving Agency

Approval Date MAY 31, 1972

Serial No. 14282

March 22, 1972

To the Division of Health:

Date

The Spring Lake Improvement District

(Insert title of body making application, i.e., municipality, corporation or individual)

9500 West Sample Road, Coral Springs, Florida

whose address is (Street and Number)

(City)

District

authorized by law to act for the said (Insert city, town or corporation)

and to expend its funds for water supply and treatment works, herewith submit for the consideration of the Division of Health, plans, specifications and other necessary data (including Form EWI-36) prepared by

Gee & Jenson, Consulting Engineers

(Engineer or firm)

2019 Okeechobee Blvd., West Palm Beach, Florida

of (Address)

who is hereby authorized to represent the applicant in the engineering features including supervision of construction and appropriate certification as to compliance with the approved plans and specifications of this project for the

New system

installation of (Clearly describe: new system, new plant, modification, extension)

Subdivision

to serve (Subdivision, plant, school, other) located at (Approximate location)

Sebring

Highlands

in/near the city of in the county of State of Florida, as required by the regulations of the Division of Health and herewith make application to the Division of Health for the approval of this project.

Board

These plans, specifications and related documents will be approved and accepted by (Board, Council, Directors, Etc.) when they have received the approval of the Division of Health.

Spring Lake Improvement District

Upon construction, these facilities will be owned by and will be

Owner

operated and maintained by whose address is (City forces, name of utility, co., or owner)

9500 West Sample Road, Coral Springs, Florida

(Street and Number)

(City or town)

This application is made under and in full accord with the provisions of Chapter 381, Section 381.031(1)(g)3 and 5 and Sections 381.251-381.291, inclusive, Florida Statutes. THE APPLICANTS AGREE THAT NO CHANGES IN OR DEVIATION FROM THE PLANS AND SPECIFICATIONS APPROVED BY THE DIVISION OF HEALTH WILL BE MADE EXCEPT WITH THE CONSENT AND APPROVAL OF THE DIVISION OF HEALTH. FURTHER, THE APPLICANTS AND/OR OWNERS AGREE TO THE SPECIFIC REQUIREMENTS RELATIVE TO OPERATION AND OPERATIONAL FUNDS THAT ARE MADE A PART OF THIS APPLICATION. (See Proviso No. 2.)

REMARKS:

Preparation of engineering documents certified by:

W B Sydow

Signature: Engineer registered under Florida Statutes

W. B. Sydow

5927

Typed Name and Fla. Registration No.

Kenneth Grady

Signature: Mayor, Chairman or President

Kenneth Grady, President

Typed Name and Title of above

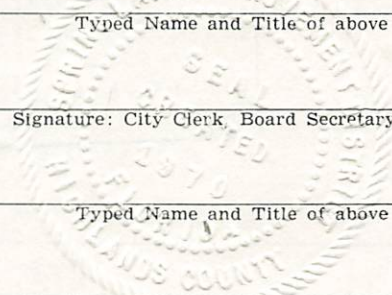
Signature: City Clerk, Board Secretary, Etc.

Typed Name and Title of above

Co-Signature: Agent for Operation and Maintenance if different

Typed Name and Title: Agent for Operation and Maintenance

ENGINEER'S SEAL



14282

MAY 31 1972

SERIAL NO.

STATE OF FLORIDA
Department of Health and Rehabilitative Services
DIVISION OF HEALTH
BUREAU OF SANITARY ENGINEERING
PORT OFFICE BOX 210
JACKSONVILLE, FLORIDA 32201

Information Regarding Proposed Water Works

Submit comprehensive engineer's report with all plans and in addition fill out such portions of the following as relate to the proposed works: (Use supplementary sheets, if necessary, and if data is shown on plans insert "see plans".)

Locality Spring Lake Improvement District Date 3-22-72
(Name of municipality, institution, etc.)

Owner's mail Address 9500 West Sample Road, Coral Springs, Florida

Information furnished by Gee & Jenson, Consulting Engineers, Inc. Engineer designing works.
(Name and Address)

Estimated total cost of project \$ 160,000.00 Water Treatment \$ 36,700.00
Distribution \$ 123,300.00

A - GENERAL MGD Increase -

1. Present Population (municipality, institution, etc.) 30

2. Design Population (additional served by this project) 262

Equivalent to 75 residential services.

3. Estimated population to be connected: 5 years 1000 10 years 4000 20 years 10,000

4. Present per capita consumption 100 gnd Per capita estimated future 100 gnd

5. Give any industrial users or abnormal demands none

6. Give characteristics present water (analysis attached if available) (hard, soft, colored, turbid, etc.) - New well tube drilled

7. Characteristics proposed water (analysis attached)

8. Give source proposed water Artesian well - Floridan Aquifer
(Deep well, shallow well, spring, surface)

9. Give sources pollution None

10. Sewage Disposal Septic tanks.
(Name and address of Sewerage Utility)

11. List treatment (softening, filtration, chlorination) aeration, settling
chlorination

12. Purified water storage: Capacity present elevated - Ground -

Capacity proposed elevated - Ground 15,700 gal

Static head relation pumping plant same

B - WELL SUPPLY

1. Existing Wells

Numbers												
Sizes												
Depths												
Pump (Type)												
Capacity												

2. Proposed Wells

Numbers	1											
Sizes	6"											
Depths	800'											
Pump (Type)	Cent											
Capacity	65 gpm											

Type construction Drilled Casing Steel

Give all geological data, including log of test wells or wells in vicinity (attach sheet)

3. Describe possible sources of contamination: None

C - SURFACE SUPPLIES

1. Name of stream, lake, or pond _____

2. Show by map watershed, towns or communities above intake, industrial plants, and in immediate vicinity, farm house, picnic grounds, abattoirs and other sources pollution, with distance from intake. Locate intake on map.

3. Size of watershed in square miles _____ Est. min. dry-weather flow at intake _____

4. Basis of min. dry-weather flow estimate _____

5. Existing Raw Water Pumps Proposed Raw Water Pumps

Type					
Capacity					
Suction Hd.					
Discharge Hd.					

D - TREATMENT PLANT

1. Regulation of water to plant:

- a. Strainer and intake devices _____
- b. Number and size intake lines 1 - 3"
- c. Difference elevation water level at intake and water level in coagulation basin or reservoir _____
- d. Emergency intake None Bypass of raw water yes
- e. Discharge lines to basin or reservoir _____

2. Aeration: Type Tray Max. des. rate 2 gpm/sq ft Detention 4 hours
 Orifices _____ Pans _____ Loss of Head _____

3. Mixing Chamber: Type _____

- a. Dimensions _____ Capacity _____ Detention _____
 Velocity (at maximum designed rate) _____
 Allowable head: Total _____ Per baffle _____
 Mechanical agitator: Size blade _____ Motor _____
 Peripheral Speed _____ Bypass _____ Drainage _____

4. Coagulating basins: Type _____

- a. Capacity _____ Detention time maximum capacity plant _____
 Velocity _____
 Capacity each compartment _____
- b. Distribution flow: Inlet devices _____
 Outlet devices _____ Overflow _____
 Elevations: maximum _____ minimum _____ average _____
- c. Drainage _____ d. Bypass _____

5. Suspended solids contact units:

Process	Capacity	Upflow rate	Detention Period	Overflow rate
Softening				
Clarification				

Remarks: _____

6. Chemical dosing devices: Type _____
- a. Number machines _____ Feeding: Alum _____ Lime _____
 Copperas _____ Activated carbon _____
 Recarbonation _____ Other _____
- b. Solution tanks _____
- c. Points of application _____
- d. Size and kind of piping _____

7. ION EXCHANGE UNITS

No. Units	Type Exchanger (organic cation, etc.)	Material	Regenerant	Cap. each unit (grains per cu. ft.)	Size each Unit (cu. ft.)

Remarks: _____

8. Filter Units:

- a. Type, material, number units _____

 Areas, dimensions, capacity each unit and for total plant _____

- b. Wash troughs, number and shape _____
 Dimensions and distance above sand (top trough and top sand) _____
 _____ Max. travel suspended particles _____
- c. Filtering material:

Gravel:

Material	Depth Layer Inches	Size in Inches	
		From	To

Sand:

Depth of bed _____ Ins. Mean effective size _____ m.m.

Uniformity coefficient _____

d. Filter bottom: Type _____
 Ratio total area of perforations to sand area _____
 Laterals; their size & spacing on manifold _____
 Perforations; size & spacing: on laterals _____ on manifold _____
 Ratio total area perforations to total x-sec. area of laterals _____
 Manifold size & x-section area _____

e. Washing facilities - Type and rate designed for _____

 Depth water on sand: maximum _____ minimum _____ average _____
 Wash tank capacity _____ Number washings _____
 Location, dimensions, overflow, drains _____

 Elevation above top wash trough _____ Head at manifold _____

f. Pipe gallery: Pipe connections _____

	Main	Branch
Influent	_____	_____
Effluent	_____	_____
Wash	_____	_____
Sewer	_____	_____
Rewash	_____	_____

Type valve control _____ Drainage _____

g. Appurtenances:
 Loss of head gauges _____
 Rate controllers _____
 Rate of flow gauges _____
 Sample pumps _____
 Operating table _____

- h. Clear well: Location _____
 Capacity _____ Dimensions _____
 Location suction and arrangement _____
- i. Chlorination: Type _____ Capacity _____
 Location _____ Point application _____
- j. Measuring devices: Raw water: Type Turbine or propeller type meter
 Capacity 200 gpm Filtered water: Type -
 Capacity _____
- k. Laboratory - Room and bench space None
 Scope of tests provided for Chlorine residual
- l. Bypass to plant _____
 Emergency intake _____
- m. Is plant designed for 24-hour operation or what portion yes
- n. List types & capacities of emergency well & service pumping units none

E - SERVICE PUMPING & DISTRIBUTION

1. Existing Service Pumps				Proposed Service Pumps		
Type				cent	cent	
Capacity				95 gpm	95 gpm	
Suction Hd.				0	0	
Discharge Hd.				140 feet	140 feet	

Remarks: _____

2. DISTRIBUTION SYSTEM

Interconnection with other system None cross connections none

Min. size pipe 2 inch Residual pressure at peak load 30 psi

Is fire control provided in design? yes

Describe dead-end conditions and necessity for flushing Blow offs provided

List lengths of new pipe lines 6" and larger. 8" - 5,025; 6" - 17,200'

These plans for the proposed improvements cited in the foregoing application are hereby approved under authority of Chapter 381, Section 381.031(1)(g)3 and 5 and Sections 381.251-381.291, inclusive, Florida Statutes, with the following provisos:

1. Construction on this project shall be commenced within one year from the date of approval of this application; otherwise plans and specifications shall be re-submitted for approval by this department.
2. This approval is given with the understanding that upon the installation of such works, its operation shall be placed under the care of a competent person, whose qualifications are approved by the Division of Health, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the Division of Health. This includes not only the provision of continuing essential funds for operation and maintenance of chemical supplies and facilities for plant operation; but also the funds for maintaining equipment and supplying the needs of a suitable water plant laboratory which is required for proper operation of this water treatment facility.
3. **System loading shall be limited to 75 connections prior to expansion of water plant capacity.**
4. **At the time of 50 active connections or one year from date of project approval, whichever occurs first, sufficient auxiliary power shall be provided to supply one-half maximum daily demand.**

Sirs:

The water supply and distribution system for the [unclear] project in [unclear] county, Florida.

Very truly yours,

1. System loading shall be limited to [unclear] connections prior to expansion of water plant capacity.
2. At the time of [unclear] active connections or one year from date of project approval, whichever occurs first, sufficient auxiliary power shall be provided to supply one-half maximum daily demand.

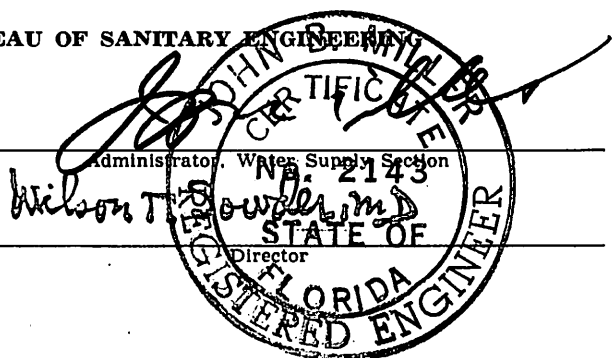
The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number as indicated below. Only such plans and specifications are included in this approval and any erasures, additions or alterations affecting the efficiency of operation or public health protective value of the proposed improvements will make such approval null and void.

Serial No.

14282

Serial No.

BUREAU OF SANITARY ENGINEERING





DIVISION OF HEALTH

POST OFFICE BOX 2178 JACKSONVILLE, FLORIDA 32202 PHONE (904) 354-3961
Wilson T. Sowder, M.D., M.P.H., Director

DATE JUNE 21, 1973

Division of Health
Bureau of Sanitary Engineering
CENTRAL FLORIDA REGIONAL OFFICE
111 Wintergate Square
1350 Orange Avenue
Winter Park, Fla. 32789

Highlands County MW
Spring Lake Improvement District
Village Phase II (water plant expansion
& Distribution system extension). (Total
connections limited to 250 equiv. single
family residences).
Approval No. 14282-A dated Dec. 5, 1972

Mr. John F. McKune, P. E.
Gee & Jensen, Consulting Engineers
2019 Okcechobee Boulevard
West Palm Beach, Fla. 33401

Dear Mr. McKune:

This will serve to acknowledge receipt of certification that the subject water project has been completed in accordance with the plans and related materials approved by this agency under the Serial Number and date shown.

Based on this certification and satisfactory bacteriological results, we are clearing these facilities for service.

Your continued cooperation in our water supply program is appreciated.

Very truly yours,

William M. Bostwick, Jr.,
Regional Sanitary Engineer

- WMB/ag
- cc: Highlands County Health Dept.
- cc: Honorable Board of County Commissioners, Highlands County
- cc: Spring Lake Improvement District
9500 W. Sample Rd., Coral Springs, Fla.
- cc: VA-Jacksonville
- cc: FHA-Tampa
- cc: Bureau of Sanitary Engineering

RECEIVED
JUN 25 1973
RECEIVED

