

ORIGINAL <sup>See</sup>

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for amendment of Certificate No. 226-S to add territory in Seminole County by Florida Water Services Corporation.

DOCKET NO.: 971638-SU  
FILED:

\_\_\_\_\_ /

**RESPONSE TO COMMISSION STAFF'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS TO THE CITY OF LONGWOOD**

COMES NOW the City of Longwood, by and through undersigned counsel and files this Response to Commission Staff's First Request for Production of Documents to the City of Longwood and the City of Longwood would produce the following:

1. A reduced copy of the wastewater collection lines/force mains drawing and engineering drawing are attached hereto.
2. N/A. Seminole County owns the wastewater treatment plant and wastewater effluent disposal system which the City of Longwood would use to serve the proposed area.
3. N/A. See #1.
4. N/A. See #1.
5. The City of Longwood does not at this time have detailed construction plans

ACK \_\_\_\_\_  
 AFA \_\_\_\_\_ for the new service area. The City of Longwood has budgeted \$20,000.00 for the fiscal year 1998 -  
 APP \_\_\_\_\_ 1999 to complete the engineering, subject to the outcome of the pending application by Florida Water  
 CAF \_\_\_\_\_  
 CMU \_\_\_\_\_ Services.

CTR \_\_\_\_\_  
 EAG \_\_\_\_\_  
 LEG Burbaker The City of Longwood can and will provide a drawing created in-house which will roughly show the details of the construction plans. Said drawing will be furnished upon completion.  
 LIN \_\_\_\_\_

OPC \_\_\_\_\_ 6. The portion of the City of Longwood's comprehensive plan which relates to

RCH \_\_\_\_\_  
 SEC 1  
 WAS 2  
 OTH \_\_\_\_\_

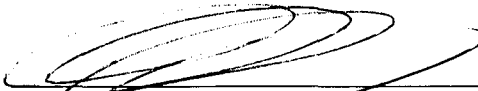
DOCUMENT NO.  
 14335-98  
 12/21/98

wastewater service is attached hereto.

7. To the best of the City of Longwood's knowledge Seminole County's Comprehensive Plan does not in any way relate to wastewater service within the City limits of the City of Longwood. Therefore, the City does not have any documents to produce related to this request to produce.

8. The Longwood Comprehensive Plan includes the Comprehensive Wastewater Collection Plan, April 1998, Rev. April 1989. The proposed service area is included in Master Wastewater Collection Plan Project Number 17. Applicable portions of the Comprehensive Master Wastewater Collection Plan are attached hereto.

**I HEREBY CERTIFY** that a true and correct copy of the foregoing has been furnished by U.S. Mail this 18th day of December, 1998, to: Jennifer S. Brubaker, Staff Attorney, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850 and Matthew Feil, Esquire, 1000 Color Place, Apopka, Florida 32703-7797.



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Richard S. Taylor, Jr., Esquire  
531 Dog Track Road  
Post Office Box 1117  
Longwood, Florida 32752  
Florida Bar No.: 221686  
Telephone: (407) 339-7888  
Attorney for The City of Longwood

#7

NE STA. 22+50 = STA. 12+58, SEE SHT. 33

6 PLUG  
STA. 22+70, LT. 9'

SAN 8 CAP  
STA. 22+80, LT. 25'  
INV. 75.10

12x8 TEE  
2-12GV W/BOX  
8 6V W/BOX  
STA. 23+60, LT. 20'

23 LF. SAN 8 PVC, 0.40%

PLUG & ABANDON EXIST 8" WM

SAN 8 PVC

FM 6 PVC  
MATCH EXIST  
PAVI  
STA 23+72

8 BEND 22-1/2; STA. 23+60, LT. 13'

23

24

NORTH ST.

30 LF.

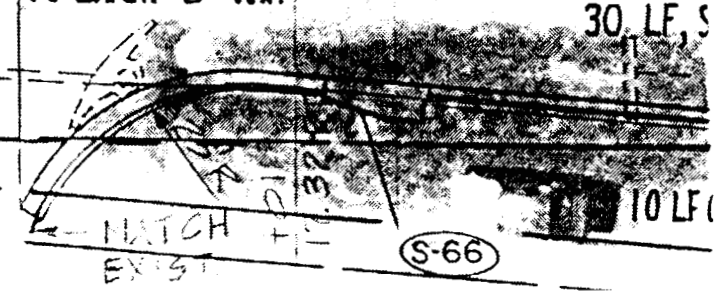
SAN MH 10-170  
STA. 22+80, RT. 1'

CONNECT TO EXIST. 8" WM

30 LF, S

24 LF SAN 8 PVC 0.40%

SAN 8 CAP  
STA 22+80 RT 25'



(S-66)



## SECTION VI

### PUBLIC FACILITIES AND SERVICES ELEMENT

#### GOAL

The goal of the Public Facilities and Services Element is to establish standards and actions which will ensure that sanitary sewer, solid waste, drainage, and potable water facilities are available to all customers served by these systems at levels of service which are established within this element. [9J-5.011(2)(a)]

#### OBJECTIVES AND POLICIES

The following objectives and policies provide a general framework for more specific proposals and recommendations.

Objective I. Beginning with the 1991-92 fiscal year, the City of Longwood will establish, as a part of the annual budgeting process, review of capital needs that have been identified for sanitary sewer, solid waste, drainage, and potable water system facilities and provide funding to correct existing facility deficiencies. [9J-5.011(2)(b)1]

Policy A. Existing deficiencies will be corrected by undertaking the following projects:

1. SANITARY SEWER
  - a. Replacement of valves and meters. (Etchberger Study, 1988)
  - b. Replace/upgrade lines. (Etchberger Study, 1988)

- c. Rehabilitation of sewer collection system such as grouping of sewer lines, slip-lining sewers, line replacements and elimination of inflow process. (Etchberger Study, 1988)

2. **POTABLE WATER**

- a. Install an additional 1700 GPM well at Plant #2.
- b. Upgrade well #4 (at Plant #2) from 1700 GPM to 2800 GPM.
- c. Install a new high service 2250 GPM pump at Plant #2.

3. **SOLID WASTE**

- a. (No existing deficiencies)

4. **DRAINAGE**

- a. Implement the drainage improvements identified in Table VI-14 of the Public Services and Facilities Background Data.

5. **FIRE PROTECTION**

- a. Carry out renovations to Fire Station #15.

6. **POLICE PROTECTION**

- a. (No existing deficiencies).

Objective II. The City of Longwood Land Development Code, which will be revised by April, 1992 shall include policies directed toward the extension of, or increase in capacity of, facilities to meet future needs. [9J-5.011(2)(b)2]

Policy A. The Land Development Code shall contain policies that address the following facility expansion and capacity issues: [9J-5.011(2)(c)1]

1. Increase in the capacity of public facilities shall only occur if existing capacity is exhausted and if the new capital investment necessary to accommodate the increase is paid by the developer.
2. The cost of extension of public facilities to serve new developments shall be borne by the developer.

Objective III. Beginning with the fiscal year 1992-93 City budget through FY 1995-1996, the City of Longwood shall include projects in the Capital Improvements Element which are directed toward the expansion of facilities. [9J-5.011(2)(b)2]

Policy A. Future needs will be addressed by undertaking the following projects: [9J-5.011(2)(c)1]

1. **SANITARY SEWER**

- a. Implementation of Projects 2-4, as identified in the Comprehensive Master Waste Water Collection Plan conducted by Lochrane Engineering Inc., April 1988, assuming revenues are available and projects are cost feasible with short repayment periods.

2. **POTABLE WATER**

- a. Install a new 500,000 gallon storage tank with a 2250 GPM high capacity service pump by 1995.
- b. Conduct a greywater reuse feasibility study to determine the costs and benefits of reusing treated wastewater to conserve potable water resources.

3. **SOLID WASTE**

- a. (No improvements anticipated.)

4. **DRAINAGE**

- a. (No improvements anticipated.)

5. **FIRE PROTECTION**

- a. By 1996, increase shift combat personnel by two (with a concomitant increase of two administrative staff for each shift combat staff).



6. POLICE PROTECTION

- a. By 1996, increase sworn officers by eight.

Policy B.

Projects shall be undertaken in accordance with the Capital Improvements Schedule as provided in the Comprehensive Plan. [9J-5.011(2)(c)1]

Objective IV.

Beginning with the fiscal year 1996-97 through fiscal year 2004-05, the City of Longwood shall include projects in the Capital Improvements Element which are directed toward the expansion of increase in capacity of facilities. [9J-5.011(2)(b)3]

Policy A.

Long term future needs will be addressed by undertaking the following projects:

1. Sanitary Sewer

- a. Implementation of Projects 5-10 as identified in the comprehensive Master Collection Plan conducted by Lochrane Engineering, Inc., April, 1988, assuming revenues are available and projects are cost feasible with short repayment periods.

2. Potable Water

(No improvements anticipated.)

3. Solid Waste

(No improvements anticipated.)

4. Drainage

(No improvements anticipated.)

5. Fire Protection

a. By 2005, increase shift combat personnel by one.

6. Police Protection

a. Add three additional motorcycle units (based on LOS indicators).

b. By 2005, increase sworn officers by sixteen.

Objective V. Beginning in 1991, the City of Longwood shall provide public facilities and services pursuant to and consistent with the minimum levels of service and schedule of needs as identified in the traffic circulation element, recreation and open space element, and public facilities and services element. The provision of these facilities and services shall be accomplished in a manner which protects investments in existing facilities and promotes orderly and compact growth.

[9J-5.011(2)(b)3]

Policy A.

The City of Longwood shall make decisions regarding the issuance of development orders and permits based upon coordination of the development requirements included in the Comprehensive Plan, Land Development Regulations and the availability of the necessary public facilities needed to support such development at the time. Development approvals shall not be granted unless adequate services are available or will be available, concurrent with a project's impacts, as indicated by the Levels of Service (L.O.S.) standards in the Comprehensive Plan (as may be amended from time to time).

The following levels of service standards are hereby adopted, and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development. These service level standards shall apply to all new development and redevelopment proposals. Infill residential development within improved residential areas or subdivisions existing prior to the adoption of this comprehensive plan must ensure that post development stormwater runoff will not contribute pollutants which will cause the runoff from the entire improved area or subdivision to degrade receiving water bodies inconsistent with the water quality standards required by Ch. 17-302, F.A.C. Any exceptions, exceptions or thresholds in these citations, including project size thresholds, are not applicable.

<u>FACILITY</u>	<u>LEVEL OF SERVICE STANDARD</u>
Sanitary Sewer	Residential: 300 GPD/d.u. Ret./Comm: 225 GPD/1000sf Whse/off. Showrm: 135 GPD/1000sf Average = 318 GPD/ERC
Potable Water	Residential: 330 GPD/d.u. Retail/Comm.: 250 GPD/1000s.f. Whse/Ofc. Shrm: 150 GPD/1000s.f.
Drainage Facilities	25 Year/6 Hour Storm PLUS, treatment of first inch of runoff on-site consistent with Ch 17- 25.025, <u>F.S.</u> to meet the water quality standards required by Ch. 17-302, <u>FS</u>
Parks	
Mini Park	0.20 Acres/1,000 Pop. (min. size = 0.5 Acres)
Neighborhood Park	2.0 Acres/1,000 Pop. (min. size = 3.0 Acres)
Community Park	1.5 Acres/1,000 Pop. (min. size = 10.0 Acres)
Solid Waste	5 Lbs./Day/Dwelling Unit plus 3.25 lbs/1000 sq. ft. of comm./warehouse

**FACILITY**

**LEVEL OF SERVICE STANDARD**

	<u>1996 LOS</u>	<u>2005 LOS</u>
Roads*		
US 17/92	"D"	"D"
SR 434	"E"	"E"
CR 427	"E"	"E"
Dogtrack Road	"E"	"E"
Longwood Hills Road	"E"	"D"
Rangeline Road	"E"	"D"
Charlotte Street	"E"	"D"
Grant Street	"D"	"D"
Church Avenue	"D"	"D"
Residential/Local	Level of Service "C" Streets (Average of L.O.S."C" at P.M. peak hour for all residential streets)	
Fire Protection	1.8 combat personnel/1000 pop. 1 EMS unit/56,500 daily veh. trips** (Average response time = 4 minutes)	
Police Protection	1 Officer/1900 Service Calls 1 Mtrcycl Patrol/28,255 Daily Veh. Trips** (Average response time = 6 minutes)	

NOTES: LOS = level of service  
GPD = gallons per day  
ERC = equivalent residential connection  
s.f. = square feet  
d.u. = dwelling unit  
\* = Reference Traffic Circulation Element,  
background section, for definitions of various  
roadway levels of service.  
\*\* = as measured on SR 434, CR 427, US 17/92  
and Longwood Hills Road

**Policy B.**

All improvements for replacement, expansion or increase in capacity shall be compatible with the adopted level of service standards for each facility.

1. Projects needed to correct existing deficiencies shall be given priority in the formulation and implementation of annual work programs of the City Building Department.  
[9J-5.011(2)(c)1]

**Policy C.**

The City of Longwood shall plan and budget to provide for the construction, improvement or replacement of public facilities identified in the Public Facilities and Services element of the Plan in order to correct existing deficiencies by 1996 and to accommodate the needs of new growth on a continuing basis. [9J-5.011(2)(c)1]

**Policy D.**

All new residential subdivisions and all new commercial developments shall be required to connect to central sewer system.

**Objective VI.**

The City of Longwood shall, by 1996, institute additional measures to conserve potable water resources [9J-5.011(2)(b)4]

**Policy A.**

By April 1, 1992, include measures in the revised Land Development Code to encourage conservation of potable water resources such as requiring xeriscaping for a portion of required landscape, use of natural vegetation, and similar measures.  
[9J-5.011(2)(c)3]

Policy B. By 1996, review and revise the City Building Code to include additional water conservation measures.  
[9J-5.011(2)(c)3]

Objective VII. For the 1991-92 fiscal year, the City of Longwood will correct identified stormwater drainage problems consistent with revenues available from a special ad valorem tax for this purpose and take other appropriate action in order to afford reasonable protection from flooding and to prevent degradation of quality of receiving waters.  
[9J-5.011(2)(b)5]

Policy A. As needed, dedicate a portion of ad valorem taxes to provide funding for correction of existing drainage problems.

Policy B. The Land Development Code will be revised to provide for the protection of natural drainage features and ensure that development utilizes stormwater management systems compatible with the City's drainage plan. [9J-5.011(2)(c)4]

1. New development is required to manage runoff from the 25 Year/6 Hour duration storm event plus the first inch of runoff on-site so that post-development runoff rates, volumes and pollutant loads do not exceed pre-development.
2. The City will include in the Land Development Code a provision that calls for the periodic inspection and maintenance of on-site systems as a condition for permit approval.

3. The subdivision regulations will be amended to include standards for inclusion of recharge areas into open space preservation requirements.
4. Stormwater drainage regulations will be revised to require retention of stormwater runoff to protect surface water quality and to enhance groundwater recharge. Criteria for the protection of the functions of natural groundwater recharge areas include:
  - a) No net reduction in recharge volume in most effective recharge areas;
  - b) Preservation of at least 75% of the recharge capability of moderate and marginal recharge areas; and
  - c) No net reduction in the quality of recharge water.
5. Land Development Code requirements will be reviewed and revised to include protection of groundwater recharge areas.
6. As part of its land development code update, the City of Longwood will adopt appropriate impervious surface ratio standards and will generally require lower intensity/density development in most effective recharge areas.



Policy C.

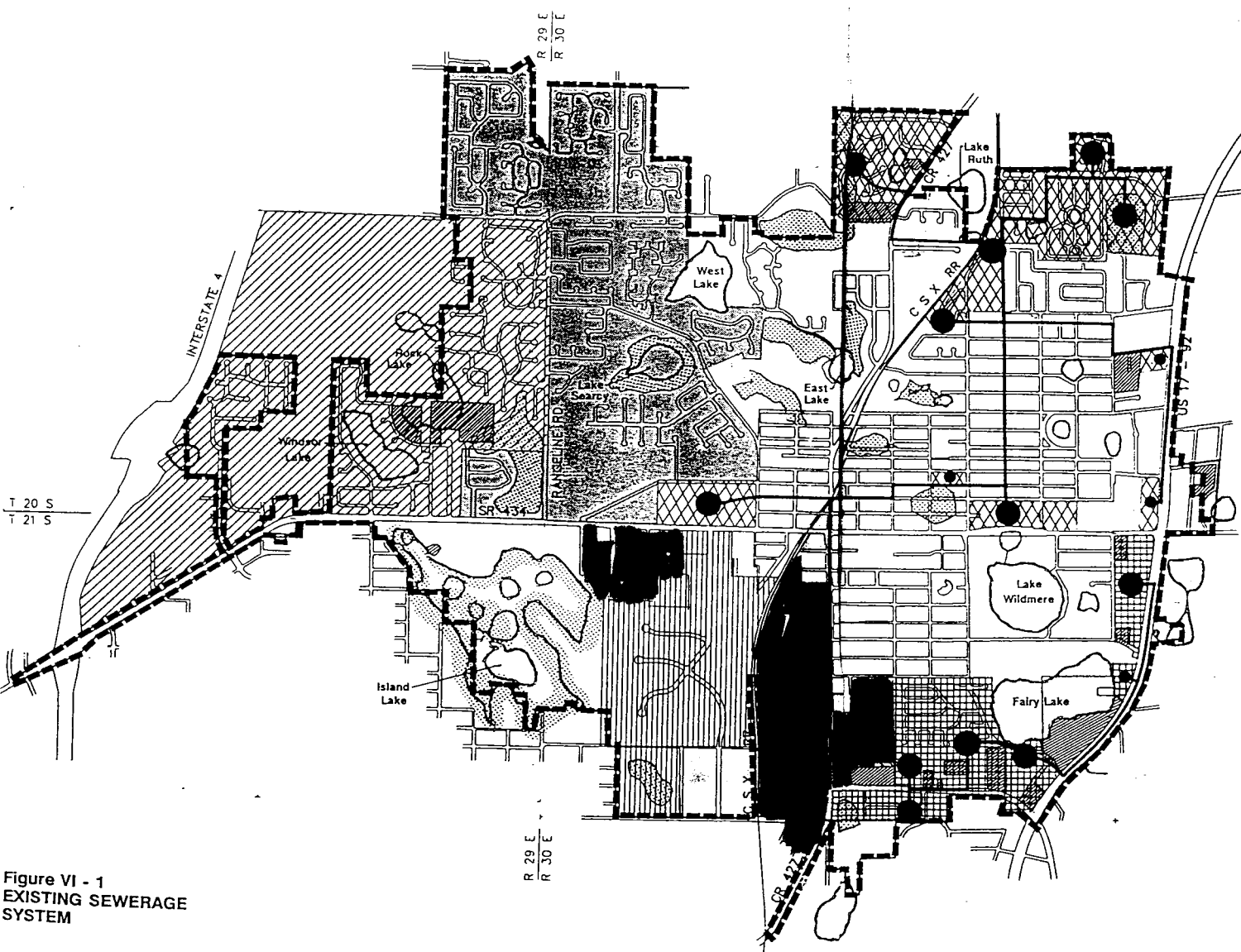
The City of Longwood will develop requirements to protect the functions of natural drainage features.

[9J-5.011(2)(c)4]

Land Development Regulations will be modified by the City of Longwood by April 1, 1992 to:

- a) Require specific setbacks from all natural drainage features within the City to protect the hydrological functioning of drainage features.
- b) Prevent the alteration of natural drainage features and buffer areas for paving, building, or other activities that would alter the natural hydroperiod of drainage systems.
- c) Provide for the coordination of City development approvals with appropriate state and federal government agencies responsible for environmental protection, such as FDER, SJRWMD and the U.S. Army Corps of Engineers.

EXHIBIT (RPK-3)



LEGEND

- EXISTING FORCE MAIN
- EXISTING LIFT STATION
- EXISTING TREATMENT PLANT
- LYMAN (CITY OF LONGWOOD) SERVICE AREA
- LONGWOOD (CITY OF LONGWOOD) SERVICE AREA
- COLUMBUS (CITY OF LONGWOOD) SERVICE AREA
- SOUTHERN STATES UTILITIES SERVICE AREA
- SKYLARK (CITY OF LONGWOOD) SERVICE AREA
- SANLANDO UTILITIES INC. SERVICE AREA
- UNINCORPORATED SEMINOLE COUNTY
- WETLANDS

COMPREHENSIVE PLAN YEAR 2000  
**CITY OF LONGWOOD**  
 SEMINOLE COUNTY, FLORIDA

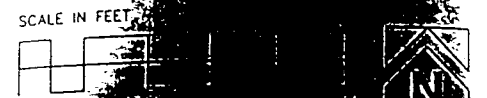


Figure VI - 1  
 EXISTING SEWERAGE  
 SYSTEM

PREPARED BY:  
**IVEY, HARRIS AND WALLS, INC.**  
 PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS  
 122 E. COLONY

Exh. C RPK-3

LEI

# COMPREHENSIVE MASTER WASTEWATER COLLECTION PLAN



PREPARED FOR

**CITY OF LONGWOOD**

PREPARED BY

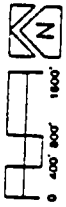
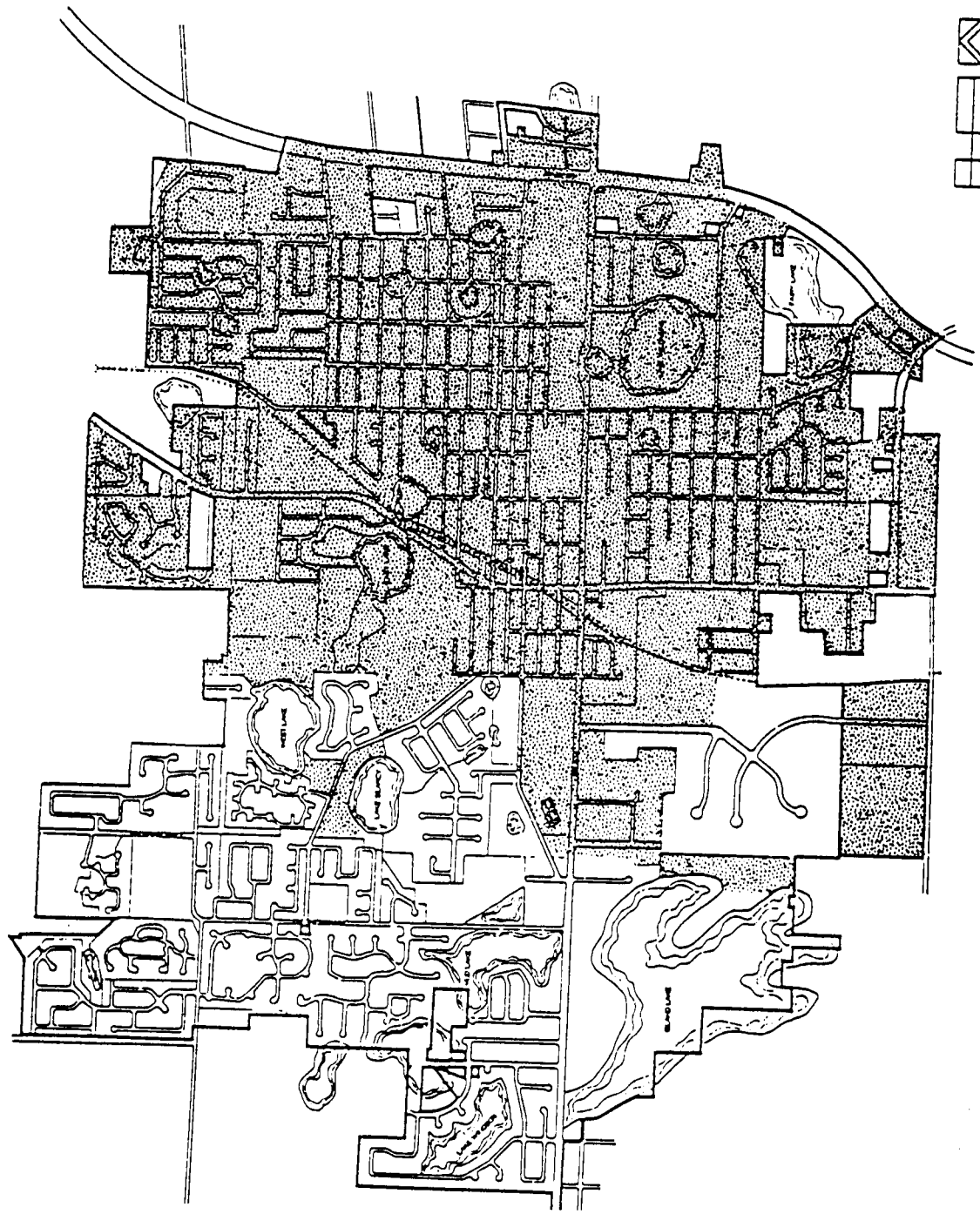
***LOCHRANE ENGINEERING, INC.***

***CONSULTING CIVIL • ENVIRONMENTAL ENGINEERS  
LAND SURVEYORS***

201 South Bumby Avenue, Orlando, FL 32803  
(407) 896-3317

APRIL 1988  
REV. APRIL 1989

LEI #87186



**LEGEND:**



**SEWER SERVICE AREA**

(EXCLUDING AREAS OF POTENTIAL ANNEXATION)



**EXHIBIT**

**1**

**CITY OF LONGWOOD  
SEWER SERVICE AREA**

MASTER WASTEWATER COLLECTION PLAN

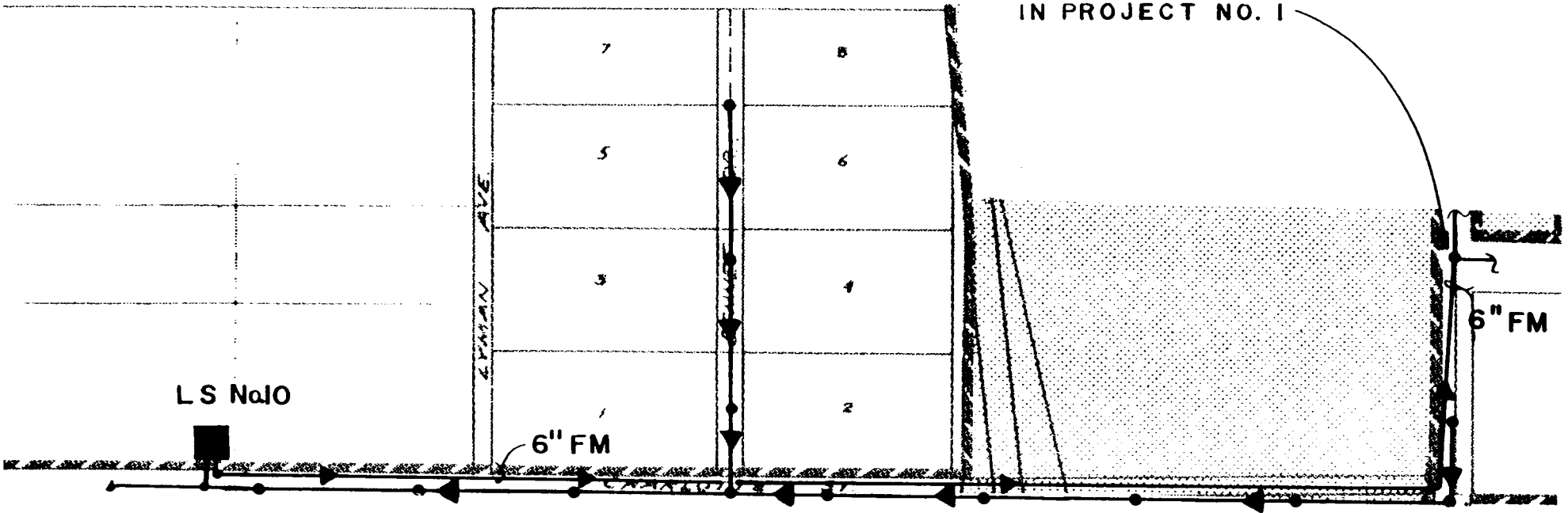
PROJECT NO. 17 DESCRIPTION

Project No. 17 includes the construction of 4,300 linear feet of 8-inch PVC gravity sewers (see Exhibit 28) along Bennett Drive and Charlotte Street. These sewers connect to a proposed duplex lift station (Lift Station No. 10).

Lift Station No. 10 has a design pumping rate of 455 gallons per minute. The wastewater is transmitted through 3,800 linear feet of 6-inch PVC force main. This force main terminates at an existing manhole (constructed in Project No. 1) on C.R. 427.



PROPOSED 6" FM TO  
TIE INTO 10" GRAVITY  
PIPE CONSTRUCTED  
IN PROJECT NO. 1



17  
SEE  
23

**LEI**  
**LOCHRANE ENGINEERING, INC.**  
20 SOUTH BUNBY AVE • ORLANDO, FL 32833 • (305) 896-3377

MASTER PLAN  
PROJECT NO. 17  
(EXHIBIT 20)

MASTER WASTEWATER  
COLLECTION PLAN  
FOR  
CITY OF LONGWOOD  
FLORIDA

PROJECT ENGINEER  
**J. HERR P.E.**  
FL REG # 36807

ACCT # 87-186  
DATE JUNE 1988  
SCALE 1"=400'  
ENGR JAA / TECH  
DRAWN AJT  
CHECKED JH

REVISION	DATE
1	
2	
3	
4	
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