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IV

SANITARY SEWER, SOLID WASTE, DRAINAGE, POTABLE WATER AND NATURAL GROUNDWATER AQUIFER RECHARGE ELEMENT

INTRODUCTION

The following plan element provides direction for the use, maintenance and location of general sanitary sewer, solid waste, drainage, potable water facilities and natural groundwater aquifer recharge areas in conformance with the future land use element of this Comprehensive Plan. The data collected for this plan element and analysis of this data contained in the County's Data and Analysis document, are not part of this plan element, but serve to provide a foundation and basis for the formulation of this portion of the Comprehensive Plan.

The future growth of the County depends upon the safe, adequate and economical means for the provision of public facilities and services. This portion of the Comprehensive Plan provides a goal, objectives and policies which direct the implementation and use of such public facilities in a logical and economic fashion, as well as, in a manner which is consistent with the State of Florida Comprehensive Plan, the North Central Florida Regional **Comprehensive Strategic** Policy Plan and the various elements of this Comprehensive Plan.

~~**References to the date October 1, 1990, as the effective date of the policies and objectives which are dependent upon the adoption of land development regulations for their implementation, assumes that the Land Development regulations which are required by Section 163.3202, Florida Statutes, are enacted by that date. October 1, 1990 is the date by which present regulations require adoption of the Land Development Regulations. It is the intent of this Comprehensive Plan that the policies and objectives of the Plan which make reference to the adoption of Land Development Regulations shall become effective with the adoption of these regulations, unless otherwise stated.**~~

GOAL IV-1 - ENSURE THE PROVISION OF PUBLIC FACILITIES IN A TIMELY, ORDERLY EFFICIENT AND ECONOMICALLY FEASIBLE MANNER AT AN ACCEPTABLE LEVEL OF SERVICE FOR THE COUNTY'S POPULATION.

OBJECTIVE IV.1 The County shall **continue to** undertake capital improvement projects in accordance with the schedule contained in the Capital Improvements Element of this Comprehensive Plan. In general, capital improvements for public facilities to serve existing development shall be given priority over facilities to serve new development.

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Policy IV.1.1 The County shall provide that within the schedule contained in the Capital Improvements Element, the capital improvement projects needed for replacement or correction of existing deficiencies be given priority over providing for future facility needs.

~~**OBJECTIVE IV.2** The County shall meet future needs for facilities by scheduling the completion of public facility improvements and requiring completion of facilities or improvements furnished by the private sector concurrent with the projected demand beginning on the effective date of the adoption of this Comprehensive Plan.~~

**POLICIES FOR SANITARY SEWER
 SANITARY SEWER FACILITY SUB ELEMENT**

GOAL IV-2 - ENSURE THE PROVISION OF PUBLIC SANITARY SEWER FACILITIES IN A TIMELY, ORDERLY EFFICIENT AND ENVIRONMENTALLY SOUND MANNER AT AN ACCEPTABLE LEVEL OF SERVICE FOR THE COUNTY'S POPULATION.

OBJECTIVE IV.2 **The County shall continue to coordinate the extension of, or increase in the capacity of sanitary sewer facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.**

Policy IV.2.1 The County hereby establishes the following level of service standards for sanitary sewer facilities ~~which shall be used for determining the availability of service capacity:~~

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
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Private on-site disposal	Shall meet or exceed all the requirements set by the Florida Department of HRS, Chapter 10D-6, F.A.C. 64E-6, <u>Florida Administrative Code, in effect on January 1, 2003</u>
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New Central Facilities

residential uses	100 gals./capita/day
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<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
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Nonresidential uses	Minimum service shall be consistent
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with ~~Table II, Chapter 10D-6,~~
~~F.A.C. Chapter 64E-6, Florida~~
~~Administrative Code, in effect on~~
~~January 1, 2003~~

~~**Note: The County does not plan to establish a county owned sanitary sewer system in the County.**~~

- Policy IV.2.2 The County's ~~land development regulations~~ shall ~~contain provisions to~~ prohibit the installation of septic tanks in locations with unsuitable soils or within wetland areas. The issuance of septic tank permits shall be a function of the Department of Health ~~and Rehabilitative Services~~ or other governmental agency having jurisdiction, subject to current regulations.
- Policy IV.2.3 The County's ~~land development regulations~~ shall allow existing septic tanks and package wastewater treatment facilities to remain in service until such time as centralized sanitary sewer service is available, subject to current regulatory jurisdiction and operating standards.
- Policy IV.2.4 The County's ~~land development regulations~~ shall allow the use of package wastewater facilities within urban development areas until a centralized sanitary sewer service is available, subject to current regulatory jurisdiction and operating standards.
- Policy IV.2.5 The ~~land development regulations~~ County shall limit development which proposes the construction of package wastewater treatment facilities outside the urban development areas to special use facilities, which do not promote urban sprawl. Examples: motels, parks, recreation areas, or other similar uses.
- 1. The County shall not issue a building permit for construction of a building or facility where sanitary sewage is proposed to be disposed using an on-site sewage disposal system in an area classified industrial on the Future Land Use Plan Map, or uses for industrial or manufacturing purposes, or its equivalent, where a centralized sanitary sewer system is available within 1/4 mile of the area used or classified industrial, or where the likelihood exists that the on-site sewage disposal system may receive toxic, hazardous or industrial waste; and**

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2. **The County shall not issue an occupational license to the owner or tenant of a building located in an area classified industrial on the County's Future Land Use Plan Map, or used for industrial or manufacturing purposes, or its equivalent, when such site is served by an on-site sewage disposal system without first obtaining an annual operating permit from the County Health Department; and**

3. **The County shall not issue a certificate or land development regulation compliance to a new owner or tenant of a building located in an area zoned industrial on the County's Official Zoning Atlas, or used for industrial or manufacturing purposes, or its equivalent, or which operates a business which has the potential to generate toxic, hazardous or industrial wastewater, when such site is served by an on-site sewage disposal system without first obtaining an annual operating permit for an on-site sewage disposal system from the County Health Department.**

**POLICIES FOR SOLID WASTE DISPOSAL
SOLID WASTE FACILITY SUB ELEMENT**

GOAL IV.3 - ENSURE THE PROVISION OF PUBLIC SOLID WASTE FACILITIES IN A TIMELY, ORDERLY EFFICIENT AND ENVIRONMENTALLY SOUND MANNER AT AN ACCEPTABLE LEVEL OF SERVICE FOR THE COUNTY'S POPULATION.

OBJECTIVE IV.3 **The County shall continue to coordinate the extension of, or increase in the capacity of solid waste facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.**

Policy IV.~~2.6~~ **3.1** The County hereby establishes the following level of service standards for solid waste disposal facilities:

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
Solid Waste Landfill	0.78 tons per capita per year

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Policy IV.~~2.7~~ **3.2** The County shall, singularly or in combination with other jurisdictional authorities, schedule, design, operate and maintain solid waste disposal facilities in a manner which minimizes the effects of such facilities on water and air resources and meets the permit requirements of the Department of Environmental Regulation. ~~(The County has entered into an interlocal agreement with Madison, Jefferson and Dixie Counties for the purpose of constructing and operating a regional landfill, with operation expected to commence in 1991).~~

POLICIES FOR DRAINAGE
DRAINAGE FACILITY SUB ELEMENT

GOAL IV-4 - ENSURE THE PROVISION OF PUBLIC DRAINAGE FACILITIES IN A TIMELY, ORDERLY EFFICIENT AND ENVIRONMENTALLY SOUND MANNER AT AN ACCEPTABLE LEVEL OF SERVICE FOR THE COUNTY'S POPULATION.

OBJECTIVE IV.4 **The County shall continue to coordinate the extension of, or increase in the capacity of drainage facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.**

Policy IV.~~2.8~~ **4.1** ~~The County hereby establishes the following level of service standards for drainage facilities.~~

FACILITY TYPE

LEVEL OF SERVICE STANDARD

Stormwater Management Systems

Standards as specified in Section 40B-4.2030, Rules of the Suwannee River Water Management District, Florida Administrative Code

LEVEL OF SERVICE STANDARD

For all projects not exempted from Chapter 40B-4 and 62-25, Florida Administrative Code in effect on January 1, 2003 within the County, stormwater management systems must be installed such that the peak rate of post-development runoff will not exceed the peak-rate of pre-development runoff for storm events up through and including either one of the following design storms.

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- 1. A design storm with a 10-year, 24-hour rainfall depth with Natural Resource Conservation Service Type II distribution falling on average antecedent moisture conditions for projects serving exclusively agricultural, forest, conservation, or recreational uses; or**
- 2. A design storm with 100-year critical duration rainfall depth for projects serving any land use other than agricultural, silvicultural, conservation, or recreational issues.**
- 3. Facilities which directly discharge into an Outstanding Florida Water shall include an additional level of treatment equal to the runoff of the first 1.5 inches of rainfall from the design storm consistent with Chapter 62-25.025(9), Florida Administrative Code, in effect on January 1, 2003 in order to meet the receiving water quality standards of Chapter 62-302, Florida Administrative Code in effect on January 1, 2003. Stormwater discharge facilities shall be designed so as not to lower the receiving water quality below the minimum conditions necessary to assure the suitability of water for the designated use of its classification as established in Chapter 62-302, Florida Administrative Code in effect on January 1, 2003.**
- 4. All other stormwater management projects shall be required to adhere to the standards for treatment in accordance with Chapter 40-B4, Florida Administrative Code in effect on January 1, 2003 (rules of the Suwannee River Water Management District) and the Suwannee River Water Management District Environmental Resource Permitting Applicant's Handbook, as effective on January 1, 2003. Stormwater discharge facilities shall be designed so as to not lower the receiving water quality or degrade the receiving water body below the minimum conditions necessary to maintain their classifications as established in Chapter 62-302, Florida Administrative Code in effect on January 1, 2003.**

Any development exempt from Chapter 62-25 or 40B-4, Florida Administrative Code in effect on January 1, 2003, as cited above and which is adjacent to or drains into a surface water, canal, or stream, or which enters a ditch which empties into a sinkhole, shall first allow the runoff to enter a grassed swale or other conveyance designed to percolate 80 percent of the runoff from a three year, one hour design storm within 72 hours after a storm event. In addition, any development exempt from Chapter 62-25 or 40B-4, Florida

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Administrative Code in effect on January 1, 2003, as cited above, which is directly discharged into an Outstanding Florida Water shall include an additional level of treatment equal to the runoff of the first 1.5 inches of rainfall from the design storm consistent with Chapter 62-25.025(9), Florida Administrative Code in effect on January 1, 2003, in order to meet the receiving water quality standards of Chapter 62-302, Florida Administrative Code in effect on January 1, 2003. Stormwater discharge facilities shall be designed so as not to lower the receiving water quality below the minimum condition necessary to assure the suitability of water for the designated use of its classification as established in Chapter 62-302, Florida Administrative Code in effect on January 1, 2003.

Policy IV.~~2.9~~ **4.2** The County's ~~land development regulations~~ shall include provisions which ~~prohibit the construction of structures or landscape alterations to control development~~ which would significantly impact or interrupt natural drainage flows, including sheet flow and flow to isolated wetland systems, without mitigation. Normal agricultural and silvicultural activities shall be exempted from these regulations, subject to Best Management Practices **2000** as adopted by the Florida Department of Agriculture or Florida Division of Forestry, as appropriate, and also the current regulatory requirements of Chapters 373 and 403, Florida Statutes, **in effect on January 1, 2003.**

Policy IV.~~2.10~~ **4.3** The County's ~~land development regulations shall include a provision which shall~~ requires that all construction activity undertaken shall incorporate erosion and sediment controls during construction **to protect the function of natural drainage features.**

Policy IV.4.4 **In order to maintain the water quality of the natural surface water bodies and natural floodways of rivers, streams and creeks, native vegetation within such natural surface water bodies and floodways shall be retained in a natural state. Harvesting, cutting and clearing activities, excluding silviculture activities conducted in accordance with the silviculture policy contained in the Conservation Element of this Comprehensive Plan, shall be restricted to the removal of exotic weeds. Such removal of exotic weeds shall only be conducted as part of a vegetative management program, and shall be consistent with federal, state and water management district regulations.**

POLICIES FOR POTABLE WATER
POTABLE WATER FACILITY SUB ELEMENT

GOAL IV-5 - ENSURE THE PROVISION OF PUBLIC POTABLE WATER

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FACILITIES IN A TIMELY, ORDERLY EFFICIENT AND ENVIRONMENTALLY SOUND MANNER AT AN ACCEPTABLE LEVEL OF SERVICE FOR THE COUNTY'S POPULATION.

OBJECTIVE IV.5 **The County shall continue to coordinate the extension of, or increase in the capacity of potable water facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.**

Policy IV.~~2.11~~ **5.1** The County hereby establishes the following level of service standards for potable water.

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
Private individual water wells	<u>100 gallon per capita per day Standards as specified in Chapter 62-22, Florida Administrative Code in effect on January 1, 2003</u>
Keaton Beach Community Potable Water System	100 gallon per capita per day
Steinhatchee Community Potable Water System	100 gallons per capita per day
Taylor Beaches Community Potable Water System	100 gallons per capita per day
Other Community Potable Water Systems (Future)	100 gallons per capita per day

OBJECTIVE IV.3 ~~**The County shall require that medium and high density development shall be directed to areas which are served by public facilities, by October 1, 1990.**~~

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Policy IV.~~3.1~~ **5.2** The County's ~~land development regulations~~ shall permit residential densities in excess of ~~two (2)~~ dwelling units per acre **but less than or equal to 4 dwelling units per acre** only ~~where community within areas served by centralized~~ potable water systems ~~are available and accessible, and residential densities in excess of 4 dwelling units per acre only within areas served by centralized potable water and centralized sanitary sewer systems.~~

Policy IV.3.2 ~~The County does not plan to establish a county owned potable water system in the County. Therefore, in the absence of a county owned public system, medium to high density development must be served by community potable water systems which meet all regulatory requirements.~~

NATURAL GROUNDWATER AQUIFER RECHARGE SUB ELEMENT

GOAL IV-6 - ENSURE THE PROTECTION OF SURFACE AND GROUNDWATER QUALITY AND QUANTITY BY ESTABLISHMENT OF PLANS AND PROGRAMS TO PROMOTE ORDERLY USE AND DEVELOPMENT OF LAND IN A MANNER WHICH WILL PROMOTE SUCH PROTECTION AND AVAILABILITY

OBJECTIVE IV.~~5~~ **6** The County shall **continue to** cooperate with the Water Management District ~~by establishing provisions within the land development regulations~~ for the protection of the functions of **natural high** groundwater **aquifer** recharge areas and natural drainage features which are consistent with current Water Management District regulations ~~concurrent with the adoption of the Land Development Code.~~

Policy IV.~~5.1~~ **6.1** The County's ~~land development regulations~~ shall provide for the limitation of development adjacent to natural drainage features to protect the functions of the feature **by requiring a minimum of 35 foot setback from natural features and environmentally sensitive areas such as wetlands, natural water bodies and streambanks.**

Policy IV.~~5.2~~ **6.2** The County's ~~land development regulations~~ shall provide for the limitation of development and associated impervious surfaces in **prime high** groundwater **aquifer** recharge areas designated by the Water Management District to protect the functions of the recharge area.

Policy IV.~~5.3~~ **6.3** The County shall allow the re-use of treated effluent and stormwater for irrigation, and shall encourage such re-use during the site plan review process.

Policy IV.5.4 ~~All future potable water wellfields, subject to regulation as~~

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~~community water systems, shall incorporate a minimum two-hundred (22) foot prohibited development zone around the perimeter of the well, No development activities, including any of the following, shall be allowed within this prohibited zone:~~

- ~~1. Landfills;~~
- ~~2. Facilities for the bulk storage, handling or processing of materials on the Florida Substance List (Chapter 443, F.S.);~~
- ~~3. Activities that require the storage, use, handling, production or transportation of restricted substances including agricultural chemicals, petroleum or industrial chemicals, hazardous/toxic or medical wastes;~~
- ~~4. Feedlots or other concentrated animal facilities;~~
- ~~5. Wastewater treatment plants, percolation ponds, and similar facilities;~~
- ~~6. Mines; or~~
- ~~7. Excavation of waterways or drainage facilities which intersect the water table.~~

Policy IV.~~5.5~~ **6.4** Stormwater management practices shall not include drainage wells and sinkholes for stormwater disposal where recharge is into potable water aquifers.

Policy IV.6.5 **The County shall provide for the limitation of development and associated impervious surfaces in high groundwater aquifer recharge areas as designated by the Water Management District and depicted in Appendix A of this Comprehensive Plan to protect the functions of the recharge area through requirement of the following:**

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- 1. Stormwater management practices shall not include drainage wells and sinkholes for stormwater disposal where recharge is into potable water aquifers. Where development is proposed on private property with existing private drainage wells, these wells shall be abandoned, including adequate sealing and plugging according to Chapter 62-28, Florida Administrative Code, and as administered and regulated by the Water Management District, in effect on January 1, 2003;**
- 2. Well construction, modification or closure shall be regulated in accordance with the criteria established by the Water Management District and the Florida Department of Health;**
- 3. Abandoned wells shall be closed in accordance with the criteria established in Chapter 62-28, Florida Administrative Code, and as administered and regulated by the Water Management District in effect on January 1, 2003;**
- 4. No person shall discharge or cause to or permit the discharge of a regulated material as listed in Chapter 442, Florida Statutes, in effect upon adoption of this Comprehensive Plan, to the soils, groundwater, or surfacewater; and**
- 5. No person shall tamper or bypass or cause or permit tampering with or bypassing of the containment of a regulated material storage system, except as necessary for maintenance or testing of those components.**
- 6. The County shall require that the following impervious surface coverages (including buildings and paved areas such as driveways) be maintained within high groundwater aquifer recharge areas, as follows:**
 - (a) for parcels equal to or greater than 1 acre - impervious surface shall not exceed 20 percent; and**
 - (b) for parcels less than 1 acre - impervious surface shall not exceed 40 percent.**

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- 7. The following uses shall be prohibited in high groundwater aquifer recharge areas as shown on Appendix A of this Comprehensive Plan, unless it can be demonstrated that the material in the quantity and/or solution stored or the conditions under which it is to be stored does not pose a hazard to human health and environment.**
- (a) Wholesale bulk fuel storage;**
 - (b) Chemical manufacturing;**
 - (c) Pesticide manufacturing;**
 - (d) Battery reclamation or manufacturing;**
 - (e) Electronics manufacturing using halogenated solvents;**
 - (f) Hazardous waste transfer sites;**
 - (g) Any site defined by the Resource Conservation and Recovery Act as a treatment storage or disposal facility for hazardous waste;**
 - (h) Regional pesticide distribution site; and**
 - (i) Underground storage tank for the storage of hazardous material except underground petroleum storage tanks.**

OBJECTIVE IV.4 ~~7~~ The County shall **continue to enforce** provisions ~~within its land development regulations~~ which encourage the conservation of potable water resources ~~by October 1, 1990~~.

Policy IV.4.1 ~~7.1~~ The County shall **continue to** cooperate with the Water Management District in the implementation of water resource conservation strategies and techniques which are adopted by the District and shall adhere to any emergency water conservation measures imposed by the Water Management District.

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Policy IV.~~4.2~~ 7.2 The County shall require that all new construction and all remodeling activities utilize fixtures conforming to the following schedule of maximum water usage, consistent with the Water Conservation Act of 1982, thereby conserving potable water resources.

Water Closets, tank type	3.5 gals./flush
Water Closets, flushometer or flush valve	3.5 gals./flush
Urinals, tank type	3.5 gals./flush
Urinals, flushometer or flush valve	3.5 gals./flush
Showerheads	3.0 gals./minute
Lavatory and sink faucets	3.0 gals./minute