



INFRASTRUCTURE ELEMENT

SANITARY SEWER SUB-ELEMENT

GOALS, OBJECTIVES & POLICIES

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GOAL SS. SANITARY SEWER PUBLIC SERVICE.

It is the goal of the City of Casselberry to provide, maintain, protect and plan for environmentally sound public sanitary sewer facilities in a timely, orderly and efficient manner. The City establishes the objectives and policies below, identified by the precedent "SS", towards the accomplishment of this goal.

OBJECTIVE SS 1. CORRECTION OF EXISTING SANITARY SEWER FACILITY DEFICIENCIES. It is the City of Casselberry's objective to take specific action during the planning period (2009-2019) to correct deficiencies which currently exist in the management, operation, and provision of City sanitary sewer facilities and services.

Policy SS 1.1 Lawful Sanitary Sewer Service Operations. All wastewater collection and transmission, treatment and effluent disposal systems owned by the City of Casselberry Utilities Department shall be operated in a manner that complies with all applicable city, regional, state, and federal wastewater service standards.

Policy SS 1.2. Master Wastewater Plan. The City shall implement, to the greatest extent possible, the recommended improvements and changes outlined in the City's current Wastewater Master Plan.

Policy SS 1.3 Wastewater Facilities Schedule. The City of Casselberry Public Works Department shall establish and implement a Wastewater Facilities Deficiencies Correction Schedule covering a five year increment to be updated on an annual basis. The schedule shall address correction of deficiencies identified within the Sewer Master Plan developed for the City. It shall be consistent with the City Comprehensive Plan Capital Improvements Element. It shall prioritize projects for maximum efficiency and cost-effectiveness. The schedule shall serve as a guide for the City, shall be updated annually through the CIP and budget, and shall project a five year increment.

Policy SS 1.4 Existing Septic Tank Systems. Septic tank use shall be limited to parcels currently using septic tank systems, and to new systems permitted pursuant to Policy SS 1.5. All existing and new septic systems shall connect to the City's wastewater system when a City sewer line is within 100 feet of the property line according to City Code. No repair/maintenance permit will be approved on existing septic systems that meet the 100 foot connection criteria:

1. Sewer main abutting property line, flows<1,000 gpd
2. Sewer main within 50 feet of property line, flow>1,000 gpd.

A flow-by availability charge, minimum monthly sewer charge, or other fee or penalty shall be imposed on users who fail to connect to the sewer system within one year's time after sewer is available within 100 feet of the property.

Policy SS 1.5 New Septic System Criteria. New septic tank use shall be permitted on infill lots where City wastewater service is not available and until City service becomes available. New residential subdivisions, and commercial or industrial uses are prohibited from using septic systems, especially if they generate any quantity of grease (such as restaurants and other types of

food handling establishments with commercial kitchens) and hazardous waste. New septic systems will be permitted subject to the following conditions:

1. no sanitary sewer is available within 100' (one hundred feet) of the abutting property line,
2. the septic system is to be located on soils suitable for septic tank use,
3. the applicant shall install dry lines or other sanitary sewer facilities to make connection to the central sewer system possible when sewer service becomes available,
4. the applicant signs an agreement to connect to the City sewer system consistent with Policy SS A (4),
5. the septic tank fully complies with all applicable State of Florida Department of Health regulations.

Policy SS 1.6 Reclaimed Water Use. The City of Casselberry shall require all development containing irrigated open space greater than two acres, including golf courses, to accept reclaimed water for irrigation when such reclaimed water is available and adjacent to the development's boundary. An exception to this requirement may be allowed in the case where re-use of captured stormwater (e.g., in cisterns or a wet detention pond) to meet a site's irrigation needs is a viable alternative that is deemed better able to protect a natural water body. Connection to the reclaimed water system shall be made at the developer's cost. The Public Works Department shall send information to sewer service consumers utilizing monthly billing statements concerning reclaimed water irrigation usage.

Policy SS 1.7 Sewer Plant Operatives. The City of Casselberry shall require the service of Class C or higher certified operators on-site 16 hours per day, seven days a week, or in accordance with the condition of the operation permit issued by the FDEP.

Policy SS 1.8 Site Plan Reviews and Comprehensive Plan Consistency. Throughout the planning period (2009-2019) public facilities and services intended to serve future development shall be consistent with the City of Casselberry Comprehensive Plan and Concurrency Management System. Site plans will be reviewed for their impacts to ongoing capacity analysis of existing sanitary sewer public facilities and any present deficiencies to include (1) existing capacity, (2) existing level of service, (3) desirable capacity or level of service, (4) amount of deficiency, if applicable, (5) alternatives to resolve the deficiency, and (6) recommended option to overcome the deficiency.

OBJECTIVE SS 2. COORDINATION OF INCREASED PUBLIC FACILITY CAPACITY. It is the City of Casselberry's objective to perform specific actions during the planning periods (2009-2019) to coordinate the increased wastewater facility capacity projected to meet the expected demands of the service area's future population.

Policy SS 2.1 **Maintenance Program.** The City shall implement and utilize a Maintenance Program developed to provide minimum standards for the development and installation of the public and private wastewater facilities.

Policy SS 2.2 **Coordinated Plans for Capacity Increase.** The City of Casselberry shall plan for the extension and increase in capacity of central wastewater facilities to meet future needs within the Casselberry sewer service area consistent with FDEP Rule 62-600.405 and based on the FDEP Capacity Analysis Report. Information contained in the current Master Wastewater Plan shall be used to prioritize and coordinate the expansion and upgrade of facilities to meet future needs. Sanitary sewer facilities shall use 80% of capacity prior to consideration of expansion. Casselberry shall establish and maintain a current five year wastewater facilities capital improvements program for the extension and increase in capacity of wastewater facilities.

Policy SS 2.3 **Interlocal Coordination.** Casselberry shall continue throughout the planning period (2009-2019) to have both informal and formal contact with adjacent municipalities and other utilities regulated by the public service commission in order to encourage cost effective service and avoid unnecessary duplication in the provision of wastewater services. Contact shall include meetings, telephone exchanges, letters and other written communication, and other forms of coordination up to and including the establishment of interlocal agreements.

OBJECTIVE SS 3. MAXIMIZING THE USE OF EXISTING PUBLIC FACILITIES. It is the City of Casselberry's objective to take specific action during the planning period (2009-2019, respectively) to maximize the use of existing public sanitary sewer facilities.

Policy SS 3.1 **Use of Highest and Best Technology.** The City of Casselberry Department of Public Works shall identify, develop, and implement environmentally sound wastewater treatment and effluent disposal systems throughout the planning period (2009-2019). The Public Works Department shall review the Master Wastewater Plan, shall incorporate and use current and technically advanced environmental information, and shall include the use of natural systems in the performance of beneficial wastewater treatment, effluent disposal and sludge management services. Public health, economic impacts, use and reuse of treated wastewater and sludges, impact on natural systems, and aesthetic impacts shall be considered in the selection of wastewater systems methods.

Policy SS 3.2 **City-wide GIS Mapping.** It is the intent of this policy to maximize efficiency of the Public Works maintenance crews in the location of lines, valves, and so on, and to assist in plan preparation when installing or replacing lines. The mapping system shall be used to update the sewer service area boundaries and facilities on an ongoing basis.

Policy SS 3.3 **Sanitary Sewer Recordkeeping.** Recordkeeping of wastewater flows, maintenance, chemical usage, and other items related to efficient ongoing wastewater service operation shall continue to be performed by the Public Works Department throughout the planning period (2009-2019).

Policy SS 3.4 **Percent of Sewer Capacity Use Requirement.** In order to maximize the use of existing sanitary sewer facilities, expansion of facilities shall be considered after capacity reaches 80% and/or after rehabilitation and reuse of existing equipment has been considered. System expansion may be allowed for process backup or to improve reliability prior to reaching 80% capacity.

Policy SS 3.5 **Use of Iron Bridge Capacity Allocation.** The City of Casselberry shall continue throughout the planning period (2009-2019) to utilize their permitted allocation for wastewater treatment at the Iron Bridge Regional Treatment Plant in compliance with the Orlando Westerly 201 Facilities Plan.

OBJECTIVE SS 4. ENCOURAGING INFILL DEVELOPMENT WITHIN WASTEWATER SERVICE AREA. It is the City of Casselberry's objective to take specific action during the planning period (2009-2019) to encourage development within the sanitary sewer service urban area.

Policy SS 4.1 **Required Central Sewer Connections.** The City requires all new development and redevelopment to connect to the central sewer system concurrent with the impacts of development pursuant to City Ordinance 50.40 (A) and (B) in the Casselberry, Florida Code of Ordinances.

Policy SS 4.2 **Ranked Development Criteria.** Throughout the planning period (2009-2019) the following ranked criteria shall be used by Casselberry to establish priorities for the provision of wastewater services:

1. Provision of service to existing developed areas that either present an immediate threat to public health or safety or produce serious pollution problems;
2. Upgrading of the pollutant removal capabilities of existing wastewater treatment plants or the treatment levels of existing water treatment plants in order to bring the facilities into compliance with regulatory standards;
3. Expansions of service to areas within the designated wastewater service area presently on septic tanks and areas identified in the Master Wastewater Plan, Capital Improvements program, and the City of Casselberry Comprehensive Plan;
4. Provisions of service to areas scheduled to be developed in the near future as identified in the City of
5. Casselberry Comprehensive Plan and the Master Wastewater Plan;

The Public Works Department shall apply these priorities in the development of departmental procedures, standards and written guidelines.

Policy SS 4.3 **Level of Service.** The City of Casselberry shall provide wastewater treatment capacity at a level of service equal to or in excess of the present level of service of 90 gallons per capita per day based on average daily flows for wastewater treatment concurrent with the impacts

of development. Capacities of wastewater treatment facilities shall be designed based on total average daily flows within the service area computed using specific factors based on land use categories times the Equivalent Residential Unit (ERU) flow rate of 315 gallons per day.

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Policy SS 4.4 **Costs for Sanitary Sewer Facilities.** Developers shall bear 100% of the impact cost of the development order approved for the cost of sanitary sewer facility expansion costs.

OBJECTIVE SS 5. PUBLIC HEALTH AND GROUNDWATER CONTAMINATION PROTECTION. It is the City of Casselberry's objective to perform specific actions during the planning period (2009-2019) to protect public health by preventing groundwater contamination.

Policy SS 5.1 **Private Package Plant Prohibition.** Within the City sewer service area, the City shall prohibit the construction and use of private package treatment plants even as an interim service.

Policy SS 5.2 **Environmental Impact Site Reviews.** When it has been determined by the City Planning and Zoning Commission/Land Planning Agency that an application for development will result in a substantial adverse environmental impact, the Commission may recommend limitation of the density and/or intensity of development. The final decision regarding limitation due to environmental impact shall rest with the City Commission. Substantial environmental impact may be determined by one or more of the following:

- A. Total clearing of on-site vegetation or placement of fill material which results in the substantial destruction of the natural vegetation;
- B. Inability to meet stormwater management criteria set forth in the City of Casselberry Subdivision Regulations; and
- C. Contamination of surface water bodies or groundwater.

Policy SS 5.3 **Floodplain Prohibition.** Sanitary sewer treatment facilities in the City of Casselberry shall not be located within the 100 year floodplain or in flood prone areas unless the facilities are not adversely affected by periodic flooding or standing water. The Public Works Department shall be responsible for determining the suitability of infrastructure development in floodplains.

Policy SS 5.4 **Wellhead Protection.** Sanitary sewer facilities shall not impact public potable water wellheads, and must be located outside the 500 foot wellhead protection area.

OBJECTIVE SS 6. FISCALLY RESPONSIBLE PUBLIC WASTEWATER SERVICES. It is the City of Casselberry's objective to perform specific actions during the planning period (2009-2019) so that the City's sanitary sewer operations are fiscally responsible.

Policy SS 6.1 Revenue Generated Services. User fees shall cover the full cost of operating and maintaining the Casselberry wastewater system, including debt service.

Policy SS 6.2 Five Year Plan. The City of Casselberry Public Works Department shall establish a capital improvements program (CIP) covering a five year increment. (The CIP shall incorporate the deficiencies correction schedule as identified within Policy SS 1.3. It shall be consistent with the City Comprehensive Plan Capital Improvements Element. It shall prioritize projects for maximum efficiency and cost-effectiveness. The schedule shall serve as a guide for the City, shall be updated annually, and shall project a five year increment.

Policy SS 6.3 Alternate Funding Pursuit. The Casselberry Public Works Department shall continue to pursue alternative funding sources and participate with other localities in order to plan and construct wastewater systems.

EXECUTIVE SUMMARY

The City of Casselberry owns and operates its own public sanitary sewer system, which accomplishes the functions of collecting, cleaning, and returning to use the wastewater used by the public in the course of daily living. It also uses a permitted allocation for wastewater treatment at the regional treatment plant, the Iron Bridge Sewage Treatment Facility.

Prior to the City's incorporation, Hibbard Casselberry, founder of the City, owned the sanitary sewer facilities and extended the system on an as-needed basis as the population increased. The City purchased sewer and water facilities from private entities in the early 1970's.

The provision of sanitary sewer treatment services is statutorily controlled by federal, state, and county regulations in addition to those established at the municipal level. The State of Florida established the Iron Bridge regional sanitary sewer treatment plant to serve multiple wastewater processing needs in response to the rapid population increase in the 1970's.

Casselberry's wastewater is collected through a gravity sewer system and conveyed by approximately 65 lift stations, eight of which are master lift stations, to either the Iron Bridge regional treatment plant or the Casselberry Sewage Treatment Plant. The regional plant is operated by the City of Orlando.