CHAPTER 4. INFRASTRUCTURE ELEMENT GOALS, OBJECTIVES, & POLICIES

GOAL INF 1

PROVIDE AND MAINTAIN THE NECESSARY PUBLIC INFRASTRUCTURE FOR POTABLE WATER, WASTEWATER, REUSE WATER, DRAINAGE, SOLID WASTE, AND AQUIFER RECHARGE IN A MANNER THAT WILL ENCOURAGE A SUSTAINABLE COMMUNITY.

POTABLE WATER

Objective INF 1.1

In coordination with SID, provide potable water facilities that are cost effective, adequate, and maintain the adopted level of service (LOS) standard.

Policy INF 1.1.1 Coordinate with SID on an annual basis to evaluate the capacity, operation, and maintenance of the water distribution system to maintain adopted LOS standards, and to determine the need for the extension of facilities to meet future needs while maximizing the use of existing potable water facilities. The SID utility service area is shown in INF Map 4.1. SID purchases potable water from Palm Beach County for distribution within the City and will be the exclusive provider of potable water within the City.

Policy INF 1.1.2 In coordination with SID, use the potable water LOS standards identified in Policies INF 1.1.3 and INF 1.1.4 to evaluate capacity for issuance of development orders.

Policy INF 1.1.3 The potable water LOS standard for residential uses shall be 110 gallons per capita per day.

Policy INF 1.1.4 The potable water LOS standards for non-residential uses shall be 150 gallons per 1,000 sq. ft. per day with the following exceptions: schools shall have a LOS standard of 18 gpd per student; hotels shall have a LOS standard of 100 gpd per room; and parks shall have a LOS standard of 10 gpd per visitor.

Policy INF 1.1.5 Potable water facilities shall be available to serve development. New developments and redevelopments will be required to connect to centralized water facilities.

Policy INF 1.1.6 Adequate water supplies and potable water facilities shall be in place and available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the City shall consult with SID to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the City of a certificate occupancy or its functional equivalent.

Policy INF 1.1.7 To the extent it has jurisdiction, the City will not allow new domestic self-supply potable water wells within the City.

Objective INF 1.2

Provide adequate, efficient and safe water distribution to accommodate existing and future demand.

Policy INF 1.2.1 The City hereby adopts by reference the City of Westlake Water Supply Facilities Work Plan (Work Plan), dated ~~March 2018~~, for a planning period of not less than 10 years. The Work Plan addresses issues that pertain to water supply facilities and requirements needed to serve current and future development within the City's water service area. The City shall review and update the Work Plan at least every five (5) years within 18 months after the governing board of the South Florida Water Management District (SFWMD) approves an updated Lower East Coast Water Supply Plan. Any changes affecting the Work Plan shall be included in the annual Capital Improvements Plan update to ensure consistency between with Work Plan and the Capital Improvements Element.

Policy INF 1.2.2 Comply with the adopted Work Plan to ensure that adequate water supply and potable water facilities are available to serve the demands of City residents.

Policy INF 1.2.3 Coordinate with the SFWMD to continue to protect and conserve ground and surface waters.

Policy INF 1.2.4 Designate minimum fire flow and related water pressure requirements in the Land Development Regulations.

Policy INF 1.2.5 The anticipated infrastructure for potable water for the short term planning period is shown on INF Map 4.2. The anticipated infrastructure for potable water for the long term planning period is shown on INF Map 4.3.

WASTEWATER AND REUSE WATER

Objective INF 1.3

Provide wastewater facilities that are cost effective, adequate, and maintain the adopted LOS standard.

Policy INF 1.3.1 Coordination with SID on an annual basis to evaluate wastewater system facilities to ensure the system effectively maintains adopted LOS standards, and to determine the need for the extension of facilities to meet future needs while maximizing the use of existing wastewater facilities. SID purchases wastewater capacity from Palm Beach County for the City and will be the exclusive provider of wastewater service within the City.

Policy INF 1.3.2 In coordination with SID, use the wastewater LOS standards identified in Policies INF 1.3.3 and INF 1.3.4 to evaluate wastewater facility capacity for issuance of development orders.

Policy INF 1.3.3 The wastewater LOS standard for residential uses shall be 100 gallons of wastewater per capita per day.

Policy INF 1.3.4 The wastewater LOS standard for non-residential uses shall be 150 gallons of wastewater per 1,000 sq. ft. per day with the following exceptions: schools shall have a LOS standard of 18 gpd per student; hotels shall have a LOS standard of 100 gpd per room; and parks have a LOS standard of 10 gpd per visitor.

Policy INF 1.3.5 Wastewater service and facilities shall be available to serve new development. New developments and redevelopment will be required to connect to the centralized wastewater facilities.

Policy INF 1.3.6 Adequate wastewater facilities shall be in place and available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the City shall consult with SID to determine whether adequate wastewater facilities to serve the

new development will be available no later than the anticipated date of issuance by the City of a certificate occupancy or its functional equivalent.

Policy INF. 1.3.7 The anticipated infrastructure for wastewater for the short term planning period is shown on INF Map 4.2. The anticipated infrastructure for wastewater for the long term planning period is shown on INF Map. 4.3.

Objective INF 1.4

In coordination with SID, provide reuse water to accommodate existing and future demand.

Policy INF 1.4.1 Coordinate with SID to provide reuse water for landscape irrigation. Where reuse water is unavailable, surface water may be used as a source of irrigation water. To the extent it has jurisdiction, the City will not allow domestic self-supply wells to supply water for irrigation within the City.

Policy INF 1.4.2 New developments and redevelopment will be required to connect to the centralized reuse water facilities where reuse water is available. The City shall coordinate with SID to maximize the use of existing reuse facilities for the provision of reuse water.

Policy INF 1.4.3 The anticipated infrastructure for reuse water for the short term planning period is shown on INF Map 4.2. The anticipated infrastructure for the reuse and irrigation facilities for the long term planning period are shown on INF Map 4.3. SID purchases reuse water from Palm Beach County for distribution within the City and will be the exclusive provider of reuse water within the City.

SOLID WASTE

Objective INF 1.5

Ensure that adequate and efficient solid waste collection is available within the City.

Policy INF 1.5.1 Ensure maintenance of the adopted solid waste LOS standard by coordinating with the Solid Waste Authority of Palm Beach County (SWA) to determine that there is sufficient disposal capacity available to accommodate solid waste generation from the City for the coming year and through the short and long term planning periods.

Policy INF 1.5.2 The solid waste LOS standard shall be 7.02 pounds of solid waste per person per day.

Policy INF 1.5.3 Use the solid waste LOS standard identified in Policies INF 1.5.2 to evaluate facility capacity and for issuance of development orders.

Policy INF 1.5.4 Coordinate the disposal of residential household hazardous waste with the SWA.

Policy INF 1.5.5 Encourage public conservation efforts by providing:

a. Public incentives for reducing, recycling, and reusing natural resources and waste products.
b. Information on reducing waste and minimizing energy use.

Policy INF 1.5.6 Participate in SWA's recycling program.

Policy INF 1.5.7 Solid waste facilities shall be available to serve existing and new development.

Policy INF 1.5.8 Adequate solid waste disposal capacity shall be available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the City shall consult with SWA to determine whether adequate solid waste disposal capacity will be available to serve the new development no later than the anticipated date of issuance by the City of a certificate occupancy or its functional equivalent.

DRAINAGE

Objective INF 1.6

Coordinate with SID to implement a drainage system for the City to address flood risks to public and private property, to maintain adopted LOS standards, and to maximize the use of existing facilities.

Policy INF 1.6.1 Stormwater management facilities shall be designed in accordance with SFWMD criteria.

Policy INF 1.6.2 All residential and nonresidential development and redevelopment shall adequately accommodate runoff to meet all federal, state and local requirements.

Policy INF 1.6.3 Coordinate with SID on an annual basis to provide stormwater management facilities consistent with SFWMD regulations, and to determine the need for the extension or creation of facilities to meet future needs while maximizing the use of existing facilities.

Policy INF 1.6.4 The drainage LOS standards are established in the tables below. Facilities listed in Table 1 below shall accommodate the stormwater produced by the identified storm event and rainfall intensity. Facilities listed in Table 2 below shall be built to the minimum elevation shown.

Drainage Level of Service Standards – Table 1

Storm Event	Intensity of Rainfall (in.)	Development, Roads, and Drainage Facilities
10 year-1 day	7.4	Local Roads and Parking Lots
25 year-3 day	12	Arterial Roads, Collector Roads, Perimeter Berm and Peak Discharge
100 year-3 day, zero discharge	14	Finished Floors

Source: Isoheytel Graphs SFWMD's Environmental Resource Permit Applicant's Handbook Volume II
**Perimeter Berm and Peak Discharge are referring to master SID stormwater management system.*

Drainage Level of Service Standard – Table 2

Minimum Elevation (NAVD 88)	Development, Roads, and Drainage Facilities
18.23	Local Road Crown
18.23	Parking Lots
19.23	Arterial and Collector Road Crown
19.83	Finished Floors

Source: SFWMD Conceptual Permit 50-0021-S

Policy INF 1.6.5 Adequate drainage facilities shall be in place and available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the City shall consult with SID to determine whether adequate drainage facilities to serve the new development will be available no later than the anticipated date of issuance by the City of a certificate occupancy or its functional equivalent.

Policy INF 1.6.6 The City shall coordinate with SID to maximize the use of existing drainage facilities.

Policy INF 1.6.7 The anticipated infrastructure for earthwork and stormwater improvements for the short term planning period is shown on INF Map 4.2. The anticipated infrastructure for earthwork and stormwater improvements for the long term planning period is shown on INF Map 4.3.

GROUNDWATER RECHARGE

Objective INF 1.7 Provide adequate and effective protection of water resources, including the surficial aquifer, within the City.

Policy INF 1.7.1 Coordinate with SFWMD to implement applicable regional water resource projects, which may reduce losses of excess stormwater to tide, recharge the surficial aquifer, protect the functions of natural groundwater recharge areas and natural drainage features (to the extent they exist), and provide water to preserve areas for additional surface water storage.

Policy INF 1.7.2 Support the SFWMD 2013 Lower East Coast Regional Water Supply Plan Update and coordinate with SFWMD on its implementation.

Policy INF 1.7.3 Coordinate with SFWMD to develop public information and education programs that promote water conservation.