# INFRASTRUCTURE ELEMENT

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# INFRASTRUCTURE ELEMENT
## Goal, Objectives and Policies

## City of Auburndale Comprehensive Plan

**GOAL 1: It shall be a goal of the City of Auburndale to provide its citizens public services in such a manner that the delivery of these services protects investments through fiscal responsibility, promotes orderly growth and redevelopment of the City, and ensures the protection and preservation of the environment.**

### Objective 1: Correcting Existing Facility Deficiencies and Maximizing Current Facilities

The City of Auburndale shall correct any existing deficiencies in the municipal water and wastewater systems, through a continued program of regular inspection, maintenance, renovation, and replacement. [9J-5.011(2)(b)1]

*Measurable Targets*: Number of inspections of wastewater and potable water facilities; number of deficiencies identified; number of deficiencies corrected.

Policy 1.1: The City shall continue a program to replace or repair segments of the water and wastewater systems as necessary to maintain the level of service standards established in this plan. [9J-5.011(2)(c)1]

Policy 1.2: The City shall continue its current program to prioritize necessary replacement, correct any deficiencies, and provide for future needs of the City for all municipal services. [9J-5.011(2)(c)1]

Policy 1.3: The City shall permit existing septic tanks to remain in service until such time as municipal sanitary sewer service becomes available to the property, in accordance with State law.

Policy 1.4. Use of on-site wastewater treatment systems shall be limited to the following conditions:

1) Use of septic tank systems for new development shall be prohibited;
2) Use of package treatment plants shall be limited to provide pretreatment of sewage prior to discharge into regional systems in the sanitary sewer service areas.

Policy 1.5: Septic tanks shall be permissible only when municipal sanitary sewer facilities are unavailable, because of capacity or line extension deficiencies, and conditions are favorable to their use, including soils, drainage, and proximity to water bodies or conservation lands. Septic tanks shall be considered temporary, and their use shall be

discontinued upon availability of municipal sanitary sewer facilities. Septic tanks shall be considered only for residential uses. All replacement septic tank systems must be permitted by the City, in addition to the county. Replacements shall not be allowed if municipal sanitary sewer service is available to the site.

## Objective 2: Expansion of Current Facilities to Meet Future Needs

The City of Auburndale will increase facility capacity or service area as necessary to ensure the provision of services at or above the established Level of Service for all municipal services and facilities available to accommodate future demands. [9J-5.011(2)(b)2,3]

*Measurable Targets*: Meet or exceed the adopted level of service standards of all municipal services and facilities (measured by the CMS) to accommodate future growth.

Policy 2.1: The City will extend municipal sanitary sewer or potable water facilities only if such expansion will not adversely impact the ability of the City to provide adequate service to the existing service area. [9J-5.011(2)(c)1]

Policy 2.2: The City shall approve extension of the geographical area of service for municipal sanitary sewer and potable water facilities into new developments only at the expense of the developer.

Policy 2.3: The City shall require that all new subdivisions constructed within the City limits, or existing subdivisions annexed into the City must be connected to the municipal sanitary sewer and potable water systems.

Policy 2.4: The City will continue to ensure, through land development regulations and the City's concurrency management system, that no development order will be issued that would result in a level of service deficiency. [9J-5.001(2)(c)1]

Policy 2.5: The extension of municipal sanitary sewer and potable water facilities beyond the City limits of Auburndale shall be extended to those areas suitable for higher densities and intensities of use that are only contiguous to the City, and to discourage urban sprawl.

Policy 2.6: All improvements, including repair, maintenance and expansion of municipal sanitary wastewater and potable water facilities shall be included in the 5-Year Schedule of Capital Improvements. [9J-5.001(2)(c)1]

Policy 2.7: City shall require property owners to hook-up to the municipal water system and sanitary sewer system, at the property owner's expense, within one year of notice from the City that municipal service is available.

Policy 2.8: In conjunction with the SWFWMD and other local governments, the City will seek the development of efficient, cost-effective, and technically feasible water sources that will

supplement future demands, without causing adverse impacts to water quality, wetlands, and aquatic systems. These sources may include, but are not limited to, brackish groundwater, surface water, and seawater. Specifically, the City will maintain its interlocal agreements with the County and other municipalities in the County to develop alternative water supplies and by 2013 the City or its identified partners will submit a CUP application for development of one or more alternative water supply development projects to help meet the City's future water needs.

Policy 2.9: The City will maximize the usage of existing potable water facilities through the implementation of management techniques that can enhance sources of supply, sustain water resources and related natural systems, and/or optimize water supply yields. These techniques may include, but are not limited to, aquifer storage recovery, system interconnects, and water conservation.

Policy 2.10: The City's annual water consumption will be equal to or less that the amount allocated under the District-issued Water Use Permit.

Policy 2.11: The City will participate in updates of the SWFWMD water supply assessments, and updates of the District's *Water Supply Plan*, to enable the City to design and implement an effective water supply plan.

## Objective 3: Design/Operational Criteria and Level of Service Standards

The City shall design/operate and maintain Level of Service standards for all municipal services, as established by this Comprehensive Plan. [9J-5.011(2)(b)2]

*Measurable Targets*: Meet or exceed adopted Level of Service standards during the planning period; number of deficiencies corrected to meet or exceed the water quality standards adopted by reference in 62-25, F.A.C. for all stormwater management facilities; number of times the system dropped below the operational minimums; number of variances approved to the stormwater management criteria.

Policy 3.1: The City establishes the following Levels of Service:

| | |
|---|---|
| Sanitary Sewer | 118 gallons of treatment per person per day |
| Potable Water | 130 gallons per person per day |
| Solid Waste | Disposal of 6.2 pounds per person per day; 1 truck per 1100 residences |
| Stormwater Management Facilities for *new* development | Designed for a 25-year, 24-hour storm event |

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

Policy 3.2: The City establishes minimum design and operational criteria for public supply potable

water facilities of:

a. Flow Capacity: 7.68 million gallons per day;

b. Storage Capacity: 2,200,000 gallons

c. Pressure: 20 pounds per square inch.
[9J-5.011(2)(c)(2)d]

Policy 3.3: Stormwater management facilities shall be designed to accommodate the 25-year, 24-hour design storm to meet the water quality and quantity standards that follow:

a: Water Quantity: Peak post-development runoff shall not exceed peak pre-development runoff rates.

b: Water Quality: Water Quality: Treatment of stormwater runoff shall be required for all development, redevelopment and, when expansion occurs, existing developed areas. The stormwater treatment system or systems can be project specific, serve sub-areas within the City or be a system to serve the entire City. Regardless of the area served and in accordance with Chapter 62-25, F.A.C., the stormwater treatment systems must provide a level of treatment for the runoff from the first one (1) inch of rainfall for projects in natural drainage basins of 100 acres or more, or as an option, for projects or project subunits in natural drainage basins of less than 100 acres, the first one-half (1/2) inch of runoff, from the design storm in accordance with Rule 62-25, F.A.C. in order to meet the receiving water quality standards of Rule 17-302, section 17-302.500, F.A.C. 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 17-302, F.A.C. It is intended that all standards in these citations are to apply to all development and redevelopment and that any exemptions or exceptions in these citations, including project size thresholds, do not apply for concurrency determinations.

Infill residential development within improved residential areas or subdivisions existing prior to the adoption of this comprehensive plan, must ensure that its post-development stormwater runoff will not contribute pollutants which will cause the run-off from the entire improved area or subdivision to degrade receiving water bodies and their water quality as stated above. [9J-5.011(2)(c)2.c]

Policy 3.4: No development permit will be issued if it will result in the inability of the City to maintain the Levels of Service at or above the levels established in this plan. [9J-5.015(2)(b)3]

## Objective 4: Conservation of Potable Water Resources

The City of Auburndale shall conserve water resources. [9J-5.011(2)(b)4]

*Measurable Targets*: Number of gallons of water saved per capita per year; lowering of the LOS for potable water.

Policy 4.1: The City shall conduct audits of the municipal water system to determine areas that may be in need of repair and may be contributing to increased water consumption through leaking pipes, and prioritize accordingly. [9J-5.011(2)(c)3]

Policy 4.2: The City shall require the use of low volume plumbing fixtures for all new construction, to be enforced as part of the City's building code and other appropriate permitting regulations. [9J-5.011(2)(c)3], also [553.14, F.S.]

Policy 4.3: The City will cooperate with the Southwest Florida Water Management District in regard to any future water shortage conservation plans or strategies that are consistent with the *Regional Water Supply Plan*. [9J-5.0011(2)(c)(3)]

Policy 4.4: The City shall require the use of Xeriscape landscaping techniques for all new development. [9J-5.011(2)(c)3]

Policy 4.5: The City shall adopt the conservation standards established by SWFWMD and its SWUCA for per capita, per day consumption, as follows:

By September 30, 1999: 130 GPD; and
By September 30, 2004: 110 GPD.

The City will develop a set of conservation incentives to assist in meeting these conservation standards.

## Objective 5: Water Supply Facilities Work Plan

The City of Auburndale will maintain a Water Supply Facilities Work Plan for at least a 10-year planning period that addresses water supply facilities necessary to serve existing and future development within the City's water service area, in conjunction with the City's Consumptive Use Permit.

Policy 5.1 The City has adopted a Water Supply Facilities Work Plan.

Policy 5.2 The Water Supply Facilities Work Plan will be used to prioritize and coordinate the expansion and upgrade of facilities used to withdraw, transmit, treat, store and distribute potable water to meet future needs.

Policy 5.3 To be consistent with the City's Concurrency Management System, prior to approval of a building permit or its functional equivalent, the local government shall consult with the

applicable water supplier 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 of occupancy or its functional equivalent. [sections 163.3177(6)(c), 163.3180(2)(a) F.S., 9J-5.005(2)(g), 9J-5.011(2)(b)4, and 9J5.011(2)(c)3, F.A.C.]

## Objective 6: Aquifer Protection

Protect groundwater recharge areas within the City's jurisdiction from any avoidable contamination or damage. [9J-5.011(2)(b)5]

*Measurable Targets*: Completion of survey of all hazardous uses and uses that produce hazardous wastes within the identified cones of influence of all wellheads; degree of elimination of any hazardous wastes or uses within the cones of influence of wellheads; number of hazardous uses or sources of contamination eliminated near wells.

### Prime Recharge Area

Policy 6.1: The City shall assist the Southwest Florida Water Management District (SWFWMD) in delineating prime recharge areas for the Floridan Aquifer within the City's jurisdiction upon completion of the water management districts study on prime recharge areas, as required by Section 373.0395, FS.

Policy 6.2: The City, upon receiving the results from updated analysis of aquifer recharge studies of the Water Management District updated analysis of recharge to the aquifer, shall:

A. update the City's Comprehensive Plan data and analysis, and
B. amend the Plan's objectives and policies where the revised data and analysis may so indicate.

Policy 6.3: The City shall continue to coordinate its development regulations and regulatory processes with the water management district, DOH, and FDEP, to standardize rules, procedures, and monitoring mechanisms for the protection and utilization of natural groundwater aquifer recharge areas and shall coordinate the 10-Year Water Supply Plan with the Regional Water Supply Plans adopted by the corresponding water management district.

Policy 6.4: The City shall continue to implement established development regulations that prohibit the location of incompatible uses, such as solid waste handlers, storage tanks, etc, in those areas that have been determined as highly susceptible to pollution of the aquifer system. As new areas are identified, the Plan will be amended to reflect these changes.

Policy 6.5: The City shall continue to implement established development regulations that limit the use of septic tanks in areas where percolation might be detrimental to the aquifer system

as establish by the USDA Soil Conservation Services Soil Survey, and the water management districts' Groundwater Resource Availability Inventory for Polk County.

Policy 6.6: The City shall established development regulations that will ensure the protection of the Floridan Aquifer from direct pollution through sinkholes, other natural features, and deep-injection wells.

**High Recharge Area**

Policy 6.7: The City of Auburndale Comprehensive Plan shall protect known Floridan Aquifer high recharge areas from direct contamination, and shall protect such areas' natural recharge functions by the establishment of criteria applicable to the development of lands within Aquifer- Protection Areas.

Policy 6.8: DESIGNATION
The City of Auburndale Comprehensive Plan establishes the category of "Aquifer-Protection Area" for those areas classified by Florida Department of Environmental Protection (FDEP) as being "high recharge areas" (above 12 inches of recharge per year) on or within the Florida Aquifer Vulnerability Assessment (FAVA) data model Recharge Areas of the Floridan Aquifer Map.

Policy 6.9: DEVELOPMENT CRITERIA
Development and redevelopment within Aquifer-Protection Areas shall conform to the Land Development Code, adopted by the City in accordance with Section 163.3202(1), FS. These regulations shall implement the following requirements:

a. Land uses shall be regulated so as to minimize the threat of contamination to the Floridan Aquifer, or other potable-water supplies, through restrictions on the storage, generation, and/or use of hazardous materials (as defined by applicable Federal or state regulations) within Aquifer-Protection Areas.
b. Aquifer recharge volumes shall be protected by requiring that post-development runoff volumes not exceed pre-development runoff volumes for a design storm at least as stringent as those determined by the applicable water management district and/or FDEP. Pervious ground cover shall be encouraged.
c. All surface waters and storm-water runoff shall be treated as required by the applicable water management district and the Florida Department of Environmental Protection FDEP.
d. All new development and redevelopment within a "high recharge area" shall not reduce the aquifer recharge quality or quantity (volumes and rates). Subsurface storage and flow shall simulate pre-development natural conditions.

Policy 6.10: PLAN AMENDMENT AND LAND-DEVELOPMENT REGULATIONS REVISIONS:

The City shall transmit a Comprehensive Plan amendment if the applicable water management district provides new delineation of prime recharge areas, recommended regulations for protecting those areas, and other information required by Section 373.0391, FS, and shall amend its development regulations after the adoption of the transmitted Plan amendment.

## Objective 7: Protection of Natural Drainage Features and Man-made Drainage Structures

Protect natural drainage features, man-made drainage structures and the City's lakes from receiving stormwater runoff that could degrade water quality in the City or downstream from the City. [9J-5.011 (2)(b)5]

*Measurable Targets:* Monitor the City's stormwater discharge to assess compliance with standards of the Florida Department of Environmental Protection; number of site plans modified or rejected due to impacts on drainage features or structures, or impacts to the City's lakes; number of inspections of retention facilities and amount of clean-up done.

Policy 7.1: The City institute a monitoring program to eliminate point and non-point sources of pollution to the City's lakes. [9J-5.013(2)(c)6]

Policy 7.2: The City will enforce land development regulations to restrict land use activities which may adversely affect natural drainage features and man-made drainage structures. Submitted site plans shall include an identification and analysis of natural drainage features and man-made drainage structures, and the impacts of proposed development on drainage and topographic features. [9J-5.011(2)(c)4]

Policy 7.3: The City shall regulate stormwater run-off for new development through the enforcement of performance standards for design and treatment of stormwater facilities at least as stringent as those specified in Section 62-25, F.A.C. [9J-5.0011(2)(c)4]

Policy 7.4: The City shall continue to participate in the Federal Flood Insurance Program.

Policy 7.5: The City shall institute a program to remove sediments from retention/detention ponds as well as silt and vegetation from ditches and storm sewers to ensure the design capacity of these facilities is maintained. This Policy shall only be applicable to facilities owned or maintained by the City of Auburndale. [9J-5.0011(2)(c)4]

Policy 7.6: The City shall ensure that stormwater management facility improvements requiring correction shall be included in the 5-Year Schedule of Capital Improvements (CIP).

Policy 7.7: The City shall not extend stormwater management facilities to new areas if such an extension would exceed the present ability of the City to provide protection from flooding to presently served areas, consistent with the established level of service standard for new

stormwater management facilities. [9J-5.011(2)(c)1]

## Objective 8: Provision for Collection of Solid Waste

The City of Auburndale will provide for the environmentally sound collection and disposal of solid waste to meet the needs of the residents of the City. [9J-5.011(2)(b)1,2,5]

*Measurable Targets*: all residents of the City receive service.

Policy 8.1: The City of shall ensure that all solid waste within the City limits is collected. [9J-5.011(2)(c)1]

Policy 8.2: The City will explore curbside recycling collection in an attempt to reduce solid waste disposal to all landfills by the year 2014.

## Objective 9: Reducing the Volume of the Municipal Solid Waste Stream

The City of Auburndale, in cooperation with Polk County, shall continue to recycle at least thirty percent of the total volume of solid waste generated within the City. This program will include the separation of aluminum, paper, glass, and other materials to comply with the State mandated requirements. [9J-5.011(2)(b)3]
*Measurable Targets*: Continued recycling and recycling education to keep the solid waste stream below that which was required by the State by 1994.

Policy 9.1: The City will maintain its current Level of Service of 6.2 pounds per person per day for solid waste by promoting and educating its citizens about recycling. [9J-5.0011(2)(c)1]

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