
**CITY OF ARCADIA
SANITARY SEWER, SOLID WASTE, DRAINAGE, POTABLE WATER
AND NATURAL GROUNDWATER AQUIFER RECHARGE ELEMENT**

GOAL: **PROVIDE ADEQUATE SANITARY SEWER, POTABLE WATER, SOLID WASTE AND DRAINAGE FACILITIES IN A TIMELY, ORDERLY AND EFFICIENT MANNER.**

LEVEL OF SERVICE

Objective 1: ***Arcadia shall provide sanitary sewer, potable water and drainage facilities that comply with the level of service and capacity standards established in the Sanitary Sewer, Potable Water, Solid Waste, Drainage and Natural Groundwater Aquifer Recharge Element.***

Policy 1.1: Arcadia shall establish a level of service of 171 gallons per capita per day for its sanitary sewer facility.

Policy 1.2: Arcadia shall provide sanitary sewer treatment facilities that provide a hydraulic peak flow design capacity of four million gallons.

Policy 1.3: Arcadia shall establish a peak season level of service of 160 gallons per capita per day, and an average daily level of service of 102 gallons per capita for potable water connections.

Policy 1.4: Arcadia shall ensure a minimum level of service for potable water storage of 50 percent of average daily flow.

Policy 1.5: Arcadia shall adopt a current and future level of service for water pressure of 20 pounds per square inch.

- Policy 1.6:** Arcadia establishes a drainage level of service for new development equal to a 25-year 24-hour storm event. Stormwater treatment and disposal facilities shall meet the design and performance standards established in Section 17-25.025, F.A.C. The first inch of stormwater run-off shall be treated on-site, pursuant to Section 17-3.051, F.A.C. Stormwater discharge facilities shall be designed such that the receiving water body shall not be degraded below minimum conditions necessary to assure the suitability of water for the designated use of its classification as established in Chapter 17-3, F.A.C. These standards shall apply to all new development and redevelopment. For existing development, the City establishes an interim level of service to manage the 10-year 60 minute storm event.
- Policy 1.7:** All structures shall have a floor elevation at or above the 100-year flood elevation.
- Policy 1.8:** Arcadia shall include within its regulations the requirement that prior to permitting a proposed project, the City must have 4.8 pounds per person per day of solid waste capacity at the DeSoto County Solid Waste Disposal Facility.
- Policy 1.9:** Arcadia shall establish and implement a concurrency management system that ensures that the necessary sanitary sewer, solid waste, potable water and drainage facilities needed to support development are available concurrent with the impacts of such development.

SANITARY SEWER AND POTABLE WATER

- Objective 2:** *Arcadia shall maintain its sanitary sewer and potable water facilities in a manner that promotes compact urban growth and is a benefit to the health, safety and welfare of the community. The use of existing sanitary sewer and potable water facilities shall be maximized, to include the maintenance and improvement of the existing system and the correction of identified deficiencies.*
- Policy 2.1:** Arcadia shall ensure that all improvements for the replacement, expansion or increase in the capacity of sanitary sewer and potable water facilities will be compatible with the established levels of service.
- Policy 2.2:** The City of Arcadia shall consider the following criteria, as recommended by the Department of Environmental Protection, for the extension of its sanitary sewer and potable water facilities:

- a. 65% of permitted capacity - retain an engineer to evaluate the system;
- b. 70% of permitted capacity - submission of construction application;
- c. 80% of permitted capacity - commence expansion construction;
- d. 95% of permitted capacity - completion of facility construction.

Policy 2.3: Extensions of municipal sanitary sewer and potable water facilities beyond the City limits shall be coordinated with DeSoto County and shall be consistent with the DeSoto County Comprehensive Plan regarding designated locations for higher density development.

Policy 2.4: All improvements, including repair, maintenance and expansion, of municipal sanitary sewer and potable water facilities shall be prioritized annually. Those improvements required to be included in the Five-Year Schedule of Capital Improvements shall be incorporated into the appropriate semi-annual Comprehensive Plan amendment. Priority for the expansion of municipal facilities shall be given to: legal obligations; existing development that is in or adjacent to the City of Arcadia; new development in or adjacent to the City of Arcadia; new development that will contribute to the tax base through higher densities or intensities of land use.

Policy 2.5: New development shall bear a fair share of sanitary sewer and potable water facility expansion costs.

Policy 2.6: Septic tanks shall be permissible only when municipal sanitary sewer facilities are unavailable, when facility capacity is deficient, and when 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.

Policy 2.7: Privately maintained and/or operated stand-alone package treatment plants shall not be permissible within the City of Arcadia. On-site pre-treatment sanitary sewer facilities that are incorporated into the municipal sanitary sewer system shall be permissible.

Policy 2.8: The City of Arcadia shall coordinate with DeSoto County to ensure that package treatment plants outside of but near to the City shall be compatible with the municipal sanitary sewer system. Such package treatment plants shall be incorporated into the municipal sanitary sewer system if and when possible.

Policy 2.9: Arcadia shall develop a comprehensive maintenance program for its sanitary sewer and potable water facilities.

Objective 3: *Arcadia shall establish procedures for the conservation of potable water resources.*

Policy 3.1: Arcadia shall provide ongoing training for operational and field personnel.

Policy 3.2: Arcadia shall coordinate with the Southwest Florida Water Management District to implement a wastewater reuse program. With funding assistance, the City will design and construct portions of a reuse system.

Policy 3.3: Arcadia shall comply with and enforce water use restrictions during Southwest Florida Water Management District declared-water shortages. [373.609, F.S.]

Policy 3.4: Arcadia shall require low volume plumbing fixtures for new construction, which shall be enforced as part of the City building code and other permitting regulations. [553.14, F.S.]

Policy 3.5: Xeriscape landscaping techniques shall be encouraged for new development.

SOLID WASTE

Objective 4: *Arcadia shall work with DeSoto County to ensure adequate landfill capacity, and to maximize the use of existing solid waste facilities. The City shall also develop a comprehensive maintenance program for its solid waste disposal equipment and facilities.*

Policy 4.1: Arcadia shall participate in county-wide public education efforts, including inserts in municipal mailings and public notices or workshops indicating recyclable materials, locations of facilities for the disposal of oil, tires and other recyclables, and other means to increase public participation in recycling efforts.

Policy 4.2: Arcadia shall continue to correct any solid waste facility deficiencies, and provide the necessary equipment and personnel to dispose of solid waste. Major new equipment needs, such as garbage trucks, shall be considered capital improvements and shall be included in the Five-Year Schedule of Capital Improvements.

Policy 4.3: Arcadia shall participate in any County-sponsored "Amnesty Days" program, and shall cooperate with DeSoto County in other efforts, including public education, to ensure proper management of hazardous wastes generated in the City.

Policy 4.4: Arcadia shall annually verify capacity at the County landfill, and shall annually inform the County of the projected annual capacity demand attributable to the City.

DRAINAGE AND NATURAL GROUNDWATER AQUIFER RECHARGE

Objective 5: *Arcadia shall establish regulations that will ensure adequate protection of groundwater aquifer recharge.*

Policy 5.1: Arcadia shall work with the Southwest Florida Water Management District in designating areas of prime recharge to the Floridan aquifer by providing any information the City may have which will assist the SWFWMD in making this designation.

Policy 5.2: The City's land development regulations shall include restrictions on land use activities known to adversely affect groundwater, particularly in areas of known high aquifer recharge.

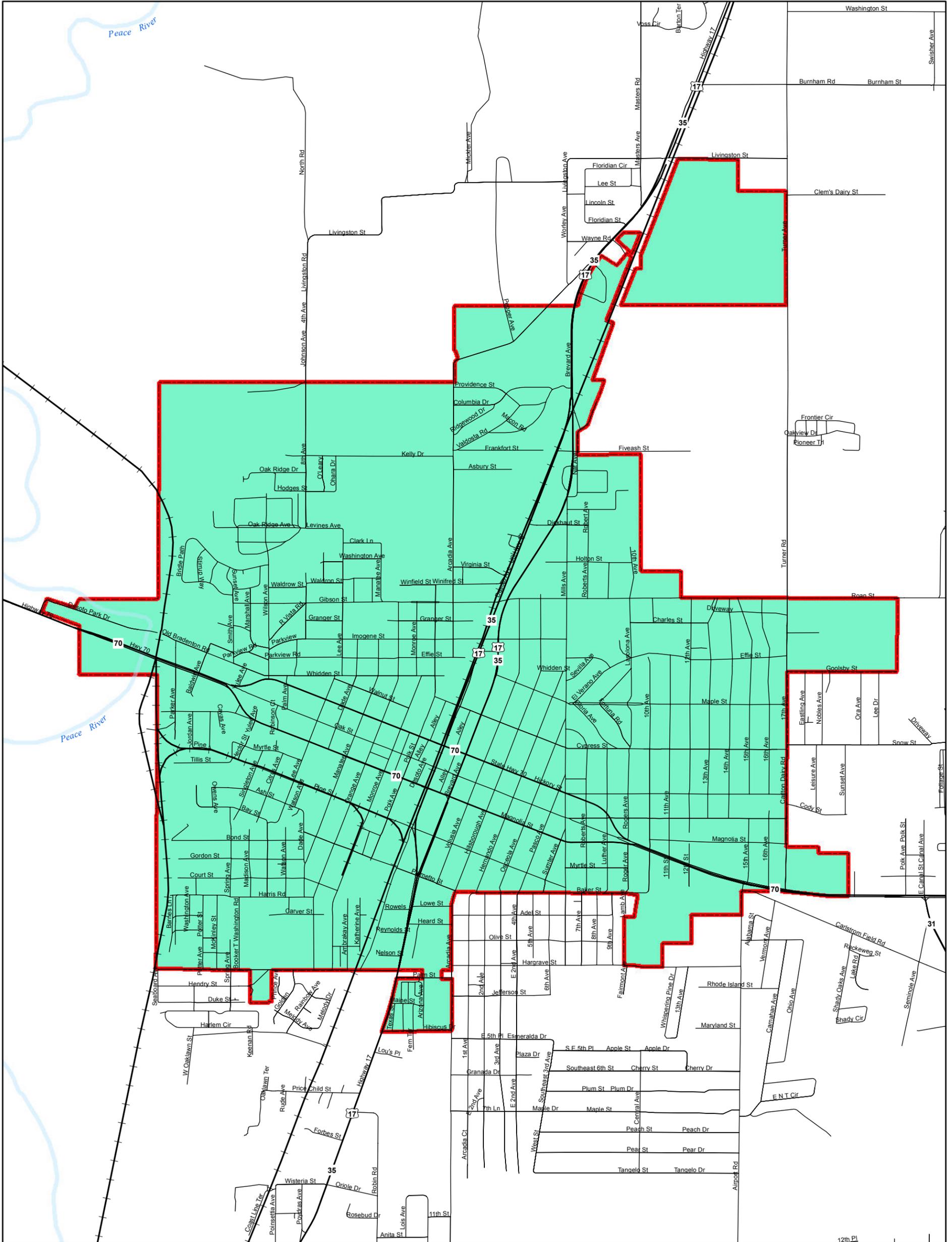
Policy 5.3: The City shall establish regulations which set forth criteria regarding the location and extent of impervious surfaces, based on pollution potential to surface and ground waters.

Objective 6: *Arcadia shall manage the quality and quantity of stormwater runoff. Existing deficiencies in man-made drainage facilities shall be corrected. Natural drainage features shall be protected through enforcement of the City's land development regulations. New development shall be required to adequately manage stormwater runoff.*

Policy 6.1: Arcadia shall undertake a stormwater management study to identify water quality and drainage deficiencies for its drainage facilities. The City shall request financial assistance for the study from the Peace River Basin Board of the Southwest Florida Water Management District.

- Policy 6.2:** Identified drainage deficiencies shall be corrected. Deficiencies for existing development shall be defined as inability to manage a 25-year 24-hour storm event and/or contributing to the degradation of the receiving body below minimum conditions necessary to assure the suitability of water for the designated use of its classification as established in Chapter 17-3, F.A.C. Drainage improvements shall be prioritized as follows: to fulfill legal obligations; to prevent further degradation of surface or water bodies; to provide adequate drainage for existing development in the City; to provide adequate drainage for new development in the City; and to extend municipal drainage facilities to areas outside of the City.
- Policy 6.3:** Arcadia shall consider the formation of a stormwater utility district to fund the correction of existing drainage deficiencies. The City shall request funding assistance from the Southwest Florida Water Management District or other appropriate state agencies to undertake a study of this issue. The City shall coordinate with DeSoto County to participate in a County-wide stormwater utility study if warranted.
- Policy 6.4:** Arcadia shall, as is required by the Stormwater Rule, Chapter 17-25, FAC, establish performance standards that reduce the annual pollutant load of stormwater runoff by 80 percent, and that best management practices be used to achieve this goal.
- Policy 6.5:** Best management practices for stormwater runoff shall be implemented in a new development's open space and landscaped areas to reduce maintenance and improve aesthetics.
- Policy 6.6:** Arcadia shall include in its land development regulations requirements for controlling soil erosion and runoff from construction sites. [187.201(8)(b)12, F.S.]
- Policy 6.7:** The City shall protect natural drainage features through enforcement of its zoning and site plan review ordinances.
- Policy 6.8:** The following interim stormwater management measures shall be implemented by the City of Arcadia. These interim measures shall be revised and amended upon completion of the stormwater drainage study as referenced in Policy 6.1.
- a. No more than 40 percent of residential lots and no more than 70 percent of commercial lots shall be covered with paving or other types of impervious surfaces;
 - b. The City shall regularly maintain retention swales adjacent to City roadways; and
 - c. Where necessary, the City shall consider construction of drainage retention areas in the public right-of-way and the use of eminent domain condemnation to acquire property for drainage retention purposes.

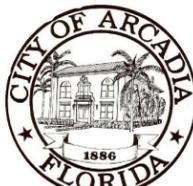
INF MAP 2 - CITY OF ARCADIA - FLORIDAN AQUIFER RECHARGE AREAS



DISCLAIMER:
The information on this map should be considered conceptual and subject to change. This map is not a survey.

Data Sources:
City of Arcadia
Desoto County Property Appraiser
Florida Department of Transportation
Central Florida Regional Planning Council
Florida Water Management Districts

Date Adopted:
May 1, 2012



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Legend	
	Roads
	Railways
	Arcadia Boundary
	Water Bodies
	Discharge / Less Than 1

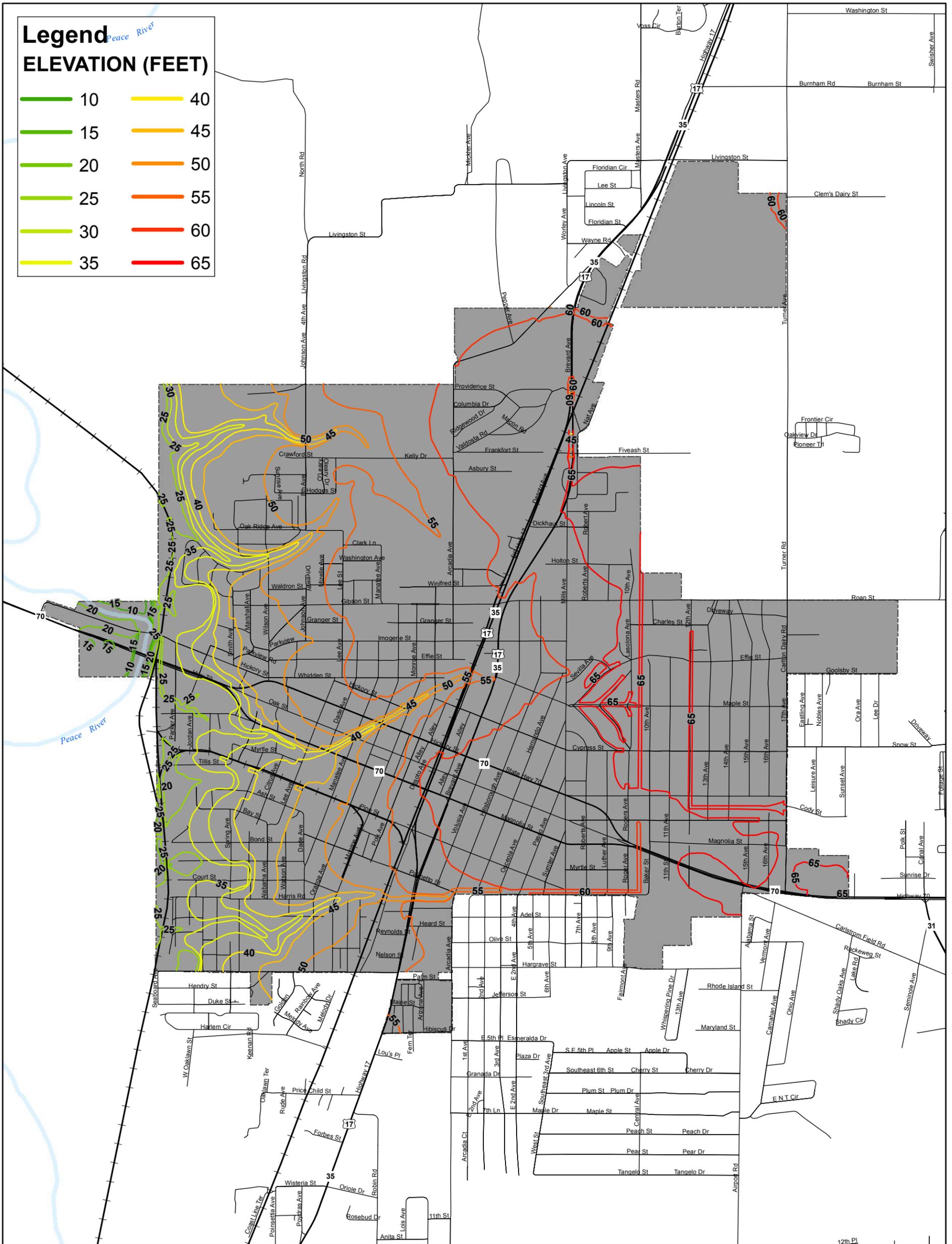


0 0.25 0.5
Miles

INF MAP 1 - CITY OF ARCADIA - GENERALIZED TOPOGRAPHY

Legend

ELEVATION (FEET)



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Central Florida Regional Planning Council
Topography Data: Florida Water Management Districts & USGS, FGDL

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General Legend

- Roads
- Railways
- Arcadia Boundary
- Water Bodies

