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**Chapter V  
PUBLIC FACILITIES  
SUPPORT DOCUMENT**

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**Evaluation and Appraisal Amendments 2017**

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**Public Facility and Service Upgrades**

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Sanitary Sewer

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The City of Port Orange owns, operates and maintains the sewer collection/treatment system in Ponce Inlet. The Town continues to coordinate with Port Orange on minor collection/ transmission facility improvements and extensions to serve anticipated growth and provide service to existing single-family dwellings currently utilizing septic systems. It is expected that those improvements necessary to serve new development or redevelopment will be constructed by land developers. Sewer line extensions to serve residences on septic systems will be provided over time, in conjunction with water line improvements to minimize impacts on community roads whenever financially feasible. For example, in conjunction with a water line upgrade project this year, the Town also installed 1,250 feet of new sewer line on Inlet Harbor Road west of South Peninsula Drive to serve existing residents and future residents of a proposed ten-lot new single-family subdivision. The Town will continue to enforce its applicable sewer connection policies and requirements for existing homes and new development. The Town will also work with the City of Port Orange to plan for future sewer line extensions and opportunities to remove septic systems from the barrier island.

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The 2008 Plan previously calculated the future sewer demand for the Town upon build-out and found that Port Orange would have adequate treatment capacity to continue serving the Town. Based on the updated development analysis in this report, the future demand should actually be less than what was forecasted in 2008. The 2008 plan estimated 3,341 residential units at build-out, generating an average daily sewer flow of 0.668 million gallons daily (mgd). Based on the updated build-out figures, the 3,301 projected units would generate 0.660 mgd per day.

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However, since 2008 Port Orange has modified its LOS standard from 200 gallons per day down (gpd) to 160 gpd per equivalent living unit. Pursuant to F.S. § 163.3180(2) and (3), the Town must reduce its LOS standard for sanitary sewer to 160 gpd per unit to match the Port Orange LOS standard. Per statute, local governments that rely on the services of another government cannot set a LOS standard greater than that of the government service provider. Using both the new residential build-out projection and the reduced LOS standard, the Town's future residential units can be expected to generate a total volume of 0.528 mgd.

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39 Solid Waste

40 Ponce Inlet does not provide any solid waste collection or disposal services. A private  
41 operator has been granted an exclusive franchise by the town for residential collections  
42 only, including garbage, recycling, and yard waste. The Town's LOS standard is 8.6 lbs. per  
43 capita per day. The 2008 Plan previously calculated the future single-family solid waste  
44 generation demand for the Town at 24.9 tons per day, based on a permanent and seasonal  
45 population of 5,806. However, considering the updated build-out population (5,039) in this  
46 report, the future demand should actually be less, at 21.7 tons per day.

47 The LOS standard of 8.6 pounds per capita is derived from a 1988 Solid Waste  
48 Management Plan prepared for Volusia County, in response to the Florida Solid Waste  
49 Management Act. The act required counties in the state to establish conservation and  
50 recycling programs, reduce waste volume, control litter, utilize landfill space more  
51 efficiently, and plan for future landfill needs. The study showed that the rate of 8.6 pounds  
52 per capita per day was a reasonable figure to use in projecting future refuse generation for  
53 the county as a whole, and this standard was adopted by other jurisdictions in the county,  
54 including Ponce Inlet. Today, five other jurisdictions maintain this same standard, while all  
55 others except one have reduced it further. The average standard of all county jurisdictions  
56 together is 6.6 pounds per capita, with a high of 10 (Daytona Beach Shores), a low of 1.8  
57 (Pierson) and a median rate of 7.0. The Town is not proposing to change its LOS standard  
58 at this time. However, the Town should investigate using a lower standard specific to Ponce  
59 Inlet to account for greater conservation, recycling rates, and the overall waste reduction  
60 efforts since 1988. The Town is adding a policy to this effect in the solid-waste section of the  
61 Element.

62 Stormwater Drainage and Aquifer Recharge

63 Ponce Inlet contains a mix of older and newer residential subdivisions. Those created before  
64 1980 were not designed with master stormwater retention facilities. The Town continues to  
65 require new development on existing vacant platted lots to provide its own on-site detention  
66 for stormwater runoff, equal to the first one inch of rainfall flowing off the roof of the  
67 building. The Town adopted a stormwater master plan in 2003 and finished constructing  
68 new retention facilities in 2006. These facilities not only store and treat stormwater runoff,  
69 but also replenish the surficial aquifer. The Town shall continue to maintain its stormwater  
70 facilities and LOS standards for stormwater drainage and natural groundwater aquifer  
71 recharge. No policy changes are proposed at this time for these facilities.

72 Potable Water

73 Ponce Inlet owns and maintains the potable water distribution system serving the town.  
74 However, water is supplied by the City of Port Orange. The existing distribution system is  
75 adequate to provide service and fire pressure in the town. As new development or  
76 redevelopment occurs, private developers will be required to upgrade pipes in their areas to

77 ensure that fire pressure and water service is adequate. In addition, some lines will need to  
78 be replaced over time as a matter of routine maintenance. At the time of replacement, some  
79 lines will be upgraded to larger diameter to improve flow rates where necessary. In 2016,  
80 the Town completed upgrades to its water mains on South Peninsula Drive and side streets,  
81 a total of 11,330 feet.

82 In its comprehensive plan, Port Orange has adopted water supply policies pursuant to the  
83 St. Johns River Water Management District Regional Supply Plan. The regional supply  
84 plan was created in 2005 and updated most recently in 2009, placing greater emphasis on  
85 the use of reclaimed water and conservation, as opposed to the construction of new  
86 treatment plants. Ponce Inlet continues to utilize its own related comprehensive plan  
87 policies and water supply plan regarding system distribution, maintenance, conservation  
88 and alternative water supply sources.

89 As with sewer, the 2008 Plan previously calculated the future water demand for the Town  
90 upon build-out and found that Port Orange would have adequate supply and treatment  
91 capacity to continue serving the Town. Based on the updated development and population  
92 analysis in this report, the future demand should actually be less than what was forecast in  
93 2008. The 2008 plan estimated a build-out population (permanent and seasonal) 5,806,  
94 using 0.813 mgd, at a LOS standard of 140 gpd per capita. Using the updated build-out  
95 estimate of 5,039 at the same LOS standard, 0.705 mgd will be used.

96 However, since 2008 Port Orange has modified its water supply LOS standard to 180 gpd  
97 per equivalent living *unit*, rather than per capita. Pursuant to F.S. § 163.3180(2) and (3),  
98 the Town must reduce its LOS standard to 180 gpd per unit to match. As with sewer, Ponce  
99 Inlet must match or not exceed the LOS standard of the local government that provides the  
100 service. Using both the new residential build-out projection of 3,301 units and the reduced  
101 LOS standard of 180 gpd per unit, the Town's residential units can be expected to use a  
102 total of 0.594 mgd.

103 In addition to reducing the LOS standard, the Town is also proposing to eliminate Policy  
104 1.4.3, in regards to irrigation meters, since neither Port Orange nor the Town issue  
105 irrigation meters connected to potable water sources.