



DEVELOPMENT SERVICES DEPARTMENT – ENGINEERING

WATER, WASTEWATER, STORMWATER DIGITAL AS-BUILT

Rev: 2 | Revision Date: 06/15/2021 | I.D. Number: WWWSDA

SPECIFICATIONS FOR DIGITAL AS-BUILT SUBMISSION FOR WATER, WASTEWATER AND STORMWATER IMPROVEMENTS

COORDINATE SYSTEM

All coordinates shall be in the “NAD 83 State Plane Florida East FIPS 0901 Feet” coordinate system. All elevations shall be based on NAVD88. The benchmark used to establish vertical control will be provided.

AS-BUILT RECORD DRAWING CONTENTS

Show elevations to the nearest hundredth of a foot for:

- a. Top of pipe for water mains, force mains and reclaimed water mains at vertical deflection points and every 200 feet along straight runs
- b. For new water mains, finish grade elevation above pipe, minimum horizontal clearance, and top/bottom of pipe to demonstrate proper clearance with respect to other facilities (parallel or crossing), in accordance with 62-555.314 F.A.C.
- c. For new sewer mains, finish grade elevation above pipe, minimum horizontal clearance, and top/bottom of pipe to demonstrate proper clearance with respect to water lines (parallel or crossing), in accordance with 62-604.400 F.A.C.
- d. Manhole rims, grate elevations and flowline elevations for inlets
- e. Inverts of all pipe connections to manholes
- f. Lift station top of slab, bottom of wet well, influent pipe invert and control set points

ADDITIONAL DRAWING REQUIREMENTS

- Sample points for water disinfection need to be clearly shown and correspond to the bacteriological report
- Indicate demarcation point between facilities owned by CITY versus private ownership
- As-built needs to be superimposed on the approved permit design drawing with actual field information provided alongside the design information (crossed/hatched out)



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CAD REQUIREMENTS

The CAD drawing will have separate layers for new or adjusted, existing, and abandoned facilities including:

- Water lines
- Valves
- Fire Hydrants
- Water Services
- Meters
- Gravity Sewer Lines
- Sanitary Manholes
- Force Main
- Lift Stations
- Sewer Laterals
- Drainage Lines
- Drainage Structures

All CAD line work shall be drawn as outlined below:

- Line work shall be snapped to end features
- Line work shall be continuous starting at one feature and ending at another feature.
- Water and Force main line work will start and stop at fittings but be continuous through pipe deflections, lateral and service connections
- Gravity and Drainage line work will start and stop at structures but be continuous through laterals. There will be no duplicate lines representing one feature

CAD format submissions shall be using AutoCAD/AutoCAD Civil 3D 2010 or later. Please send as an AutoCAD “e-transmit” including all XREF's, Image files, Plot Styles, and Text Styles.