



SECTION 4

FINAL RECORD DRAWINGS/AS-BUILTS

4.1 PURPOSE

The intent of this section is to ensure that the Final Record Drawings/As-builts accurately depict the wastewater collection facilities as constructed. In view of the need for uniformity in the recording process, Final Record Drawings/As-builts for water distribution utilities will be developed by the Board's Engineer. Therefore, this section focuses on the final documentation for all wastewater collection systems and their appurtenances.

4.2 GENERAL

A record of all deviations from the Board approved construction drawings shall be made by the Owner's Engineer. Where "as constructed" information differs from the original proposed information, the Engineer shall mark a line through the proposed information and add the corrected information near the crossed out original data. Original data shall under no circumstances be erased from the original plans. Changes must be sufficiently dark to ensure a quality image. NO RED LINE markings will be accepted.

A check mark shall be placed beside the original plan information which has been verified to be correct as constructed. Any unverified data shall show +/- thereby indicating that the information has not been verified.

The Engineer shall stamp and sign **ALL SHEETS** verified and submitted for Final Record Drawings.

The Final Record Drawings shall depict both the proposed plan information along with the "as constructed" information.

4.3 CONSTRUCTION SECURITY

Construction security shall be withheld from the owner until final record drawings/as-builts have been submitted to and reviewed by the Board.

4.4 PROCESS

The Board will notify the Engineer/Owner that a particular project is ready for Final Record Drawings. The Engineer shall produce the Final Record Drawings and submit 3 copies of

them to the Board for review. The Board's Engineer will review the submittal and verify the deviations noted. NOTE: The review process is only cursory and in no way releases the Engineer from the liability of, or the responsibility for, his design. It is the design engineer's responsibility to accurately depict the facilities as constructed.

4.5 FINAL RECORD DRAWINGS/AS-BUILT REQUIREMENTS

At a minimum, Final Record Drawings/As-Built submitted to the Board for consideration shall consist of one overall drawing sheet (24" x 36") containing the following information:

- Title Block (See Section 3 of this Manual)
- North arrow
- Graphic scale
- Overall plan view of the project
- Manhole rim and invert elevations established by employing referenced datums (See Section 5 of this Manual)
- Pipe information (bearings and distances, percent slope and material type)
- Lateral information (location measurements, measurements from manholes and/or property corners, and material type)
- Casing information (size, material type, grade, length, etc.)
- Property line and easement information (See Section 6 of this Manual)
- X, Y, and Z coordinates in state plane coordinates, as outlined in Section 5 of this manual, for all appurtenances installed.

In addition to the hard copies a digital copy of the as-builts shall be submitted on CD or via email. The digital copy shall be in dxf or dwg format.

4.6 SURVEYS

All as-built surveys shall be performed in accordance with Section 5 (Surveying), and referenced to Montgomery County GIS Horizontal and Vertical Datums.

On-site project benchmarks shall be flagged during the survey.

Manhole rim elevations shall be determined in reference to a marked or painted spot on the rims.

Invert measurements shall be taken with a plumb rod whenever possible. Non-plumb rod measurements shall be corrected to reflect the actual vertical measurement.

Horizontal positions of as-built improvements, which vary from plan locations, shall be noted.

4.7 CERTIFICATION

The three sets of as-builts submitted to the Board shall be certified and bear the seal of an engineer licensed in the State of Alabama and shall contain the following statement:

“ I, _____ (Engineer’s Name) _____, A LICENSED ENGINEER IN THE STATE OF ALABAMA, CERTIFY THAT THIS AS-BUILT PLAN(S) OF THE SANITARY SEWER MAIN INSTALLATION OF (Project Name) IS CONSTRUCTED IN COMPLIANCE WITH THE MONTGOMERY WATER WORKS AND SANITARY SEWER BOARD’S SPECIFICATION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LIC. NO. _____ (SEAL) _____ ”

All as-built surveys, which include improvements within easements across private property, shall require additional certification by a registered land surveyor stating that all improvements are located within the easements and that improvements and easements are located correctly as shown.

4.8 AUDIT OF RECORD DRAWINGS

The Board reserves the right to randomly audit and confirm the accuracy of data submitted on Final Record Drawings through the use of a third party Land Surveyor. Any discrepancies revealed by the audit shall be resolved by the Engineer to the satisfaction of the Board’s Engineer and the third party Land Surveyor at no expense to the Board.



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