

## **APPENDIX E (ii)**

### **WATER RECORD DRAWING REQUIREMENTS**

1. Title shall include:
  - a. "Record Drawing"
  - b. The name of the project.
  - c. The block and lot of the project.
2. Main pipes shall indicate the sizes and material. Pipes shall be located by offset measurements where installed, at maximum 500 foot intervals.
3. Valves shall be shown in line and triangulated.
4. Service lines shall indicate the sizes and material. Curb stops shall be stationed/offset from nearest down stream manhole where possible or triangulated. If possible the curb box shall be triangulated to the corners of the house.
5. Curb boxes should be shown where required, between the curb and the sidewalk or back by the property line.
6. Bends shown shall have the degree of curvature noted. Bends shall be stationed/offset from nearest down stream manhole where possible or triangulated.
7. Hydrants shall be located by station/offset.
8. The distance between the hydrant and the hydrant valve shall be shown.
9. The plans shall list the manufacturer names and model numbers of the material used for the main pipes, hydrants, valves, valve box, service tubing, curb stops, curb box, corporation, and any other material used.
10. Plan shall be signed and sealed by either a Professional Engineer or a Land Surveyor.
11. All existing lines, lines by others, or future lines shall be shown with different symbols.
12. An approval signature block shall be provided along with the contractor's name and dates of construction provided.
13. Plan shall show all final tax map lot and block numbers of all developed and adjacent lots.
14. Street names and right-of-way widths shall be shown.
15. North arrow and a legend of symbols shall be shown.
16. A Deed of Easement and Legal Description of all easements dedicated to the Authority shall be provided.
17. Water storage tanks, wells, well houses, booster pump stations, water treatment plants require all site location data, all equipment data, operation manuals, electrical wire diagrams, controls, heating, ventilating, air conditioning and plumbing data as installed.
18. Original submittal should be two sets of prints for review. (One for us, and one for JTMUA.) Upon approval six copies of prints, one electronic file and one reproducible will be required.

## APPENDIX E (i)

### **SEWER RECORD DRAWING REQUIREMENTS**

1. Title shall include:
  - a. "Record Drawing"
  - b. The name of the project.
  - c. The block and lot of the project.
2. Main pipes shall indicate the sizes, length, slope, flow direction with arrows and material. Pipes shall be located where installed.
3. Should a slope be below New Jersey Department of Environmental Protection minimum a calculation by the design professional engineer on velocity must be submitted.
4. Main pipe inverts at manholes shall be NGVD 1929 elevations and the benchmark shall be shown.
5. Manholes shall be located by stations from the downstream manhole. Rim and invert elevations shall be shown.
6. Service laterals shall indicate the sizes and material. Lateral pipes shall be shown where they connect to the main and the cleanout. Cleanouts shall be located by station/offset or triangulation. If possible the cleanout shall be triangulated to the corners of the house.
7. Cleanouts should be shown where required, between the curb and the sidewalk or back by the property line.
8. The plans shall list the manufacturer names and model numbers of the material used for the main pipes, manholes, manhole covers, cleanout fittings and any other material used.
9. Plan shall be signed and sealed by either a Professional Engineer or a Land Surveyor.
10. All existing lines, lines by others, or future lines shall be shown with different symbols.
11. An approval signature block shall be provided along with the contractor's name and dates of construction provided.
12. Plan shall show all final tax map lot and block numbers of all developed and adjacent lots.
13. Street names and right-of-way widths shall be shown.
14. North arrow and a legend of symbols shall be shown.
15. A Deed of Easement and Legal Description of all easements dedicated to the Authority shall be provided.
16. Sewerage pumping stations, lift stations, force mains, treatment plants, and sewerage collection system structures require all site location data, all equipment data, operation manuals, electrical wire diagrams, controls, heating, ventilating, air conditioning and plumbing data as installed.
17. Original submittal should be two sets of prints for review. (One for us, and one for JTMUA.) Upon approval six copies of prints, one electronic file and one reproducible will be required.