

UTILITY PLAN ELEMENTS

Adequate utility infrastructure is essential to the support of land use and development and land use planning must take into consideration and be consistent with existing and proposed utility facilities. The two utility systems most frequently generating concern in developing a realistic land use plan are water supply and sewage disposal systems. To this end, and in order to place the land use proposals of the Master Plan in proper perspective, Water Distribution and Wastewater Management Plan maps have been included as in this report. Additionally, comments regarding Stormwater Management have also been included in order that future development incorporates adequate stormwater runoff control measures.

WATER DISTRIBUTION PLAN

Private utility companies, and primarily the New Jersey American Water Company, are the major suppliers of potable water to most sections of the Township. As further pointed out, New Jersey American has no plans for any significant improvement or expansion of the system, and extension of supply lines is dependent on growth. Invariably, the Company has been able to supply water to new development and extend supply lines to that development. Therefore, the Water Distribution Plan is essentially a reflection of the existing distribution system.

It is evident from the Plan that some existing water lines are quite small in size and should be replaced. In general, a minimum size of 8" is standard, although 6" is acceptable under certain circumstances.

WASTEWATER MANAGEMENT PLAN

A Wastewater Management Plan for the Township was adopted by the Township Committee in the early 1990's. The purpose of this Wastewater Management Plan (WMP) is to review present and future wastewater collection and treatment needs of the Township of Chatham and to propose facilities which meet these needs and which are consistent with the 1.0 million gallons per day (MGD) limitation imposed upon the Township in the Northeast New Jersey Water Quality Management Plan (208 Plan). The WMP has been prepared as required by the New Jersey

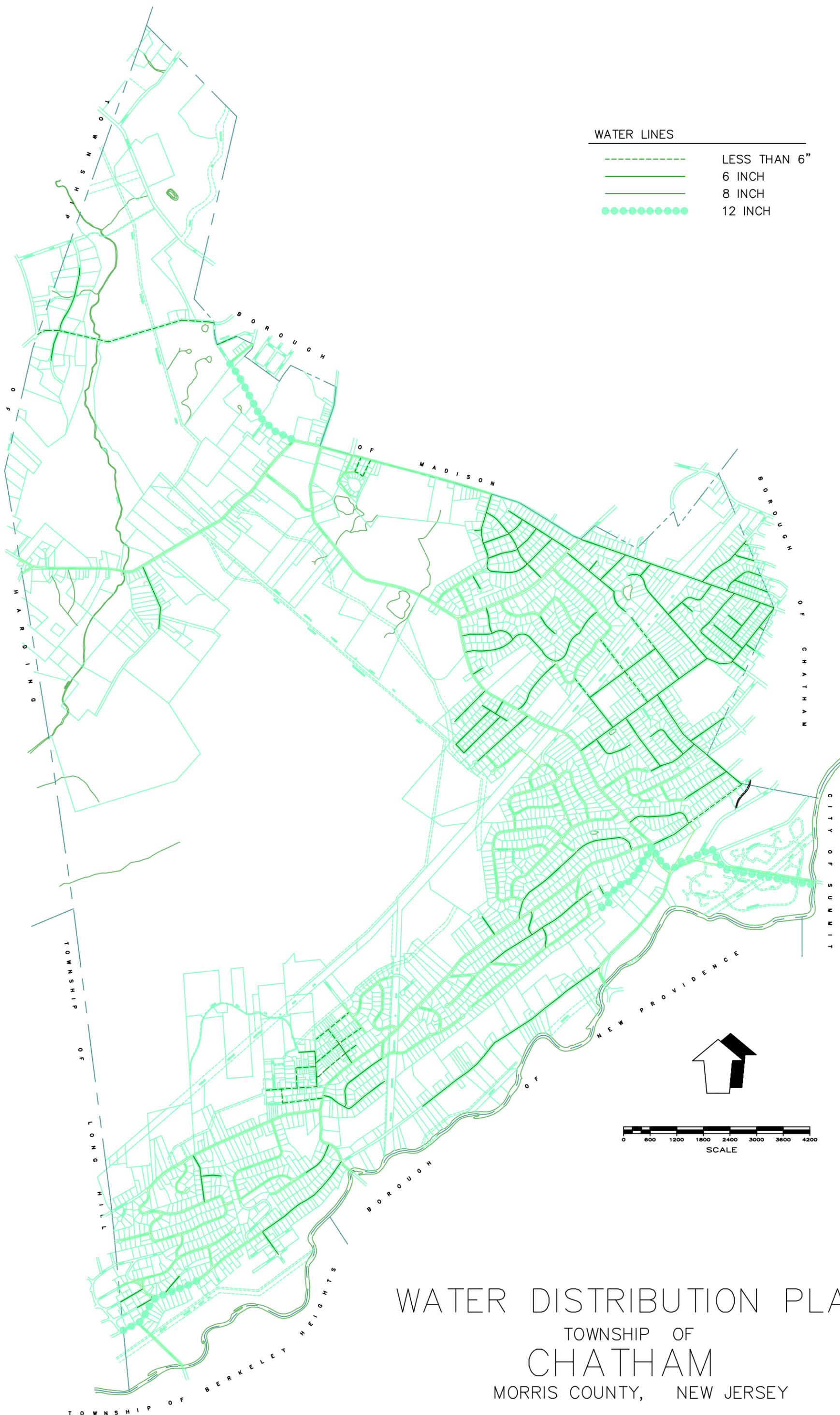
Department of Environmental Protection (NJDEP) in accordance with NJAC 7:15-3.4 for approval as an amendment to the 208 Plan.

Embodied in the Wastewater Management Plan are the existing sewage collector system including all appurtenant facilities, such as existing wastewater treatment plants, the existing sewer service area and areas included in the proposed expansion of the service area. For purposes of this report, the existing and proposed sewer service areas found in the WMP have been combined and indicated on the Wastewater Management Plan map. Efforts have been made to coordinate the Wastewater Management Plan with the Land Use Plan Element particularly as lot size and density recommendations relate to treatment plant capacity.

An important aspect of Wastewater Management concerns septic system management. A substantial number of dwellings in Chatham Township are served by individual subsurface sewage disposal systems and certain sections of the Township will continue to rely on septic systems in the future. Continued maintenance of these systems is essential to the immediate and long term health and welfare of the Township and its citizens.

The septic system features of the Wastewater Management Plan are established by certain Board of Health Ordinance which concern the licensing, operation and maintenance of subsurface disposal systems. Essentially, two ordinances are involved. They are:

1. Ordinance BH-1-95, including amendments thereto, known as the Individual Subsurface Disposal System Maintenance Ordinance. The adoption of this ordinance was required by the New Jersey D.E.P. as a condition of approval of the Township's Wastewater Management Plan. The ordinance provides for the establishment and enforcement of regulations for the use, operation and maintenance of individual subsurface disposal systems on properties not served by other wastewater treatment and disposal facilities.
2. Ordinance BH-3-93 which is an amendment to the Individual Subsurface Sewage Disposal System Ordinance. The amendment establishes requirements for certification for continued use of existing individual subsurface sewage disposal systems prior to resale of properties containing such systems.



WATER LINES	
-----	LESS THAN 6"
————	6 INCH
————	8 INCH
●●●●●●	12 INCH



WATER DISTRIBUTION PLAN

TOWNSHIP OF CHATHAM

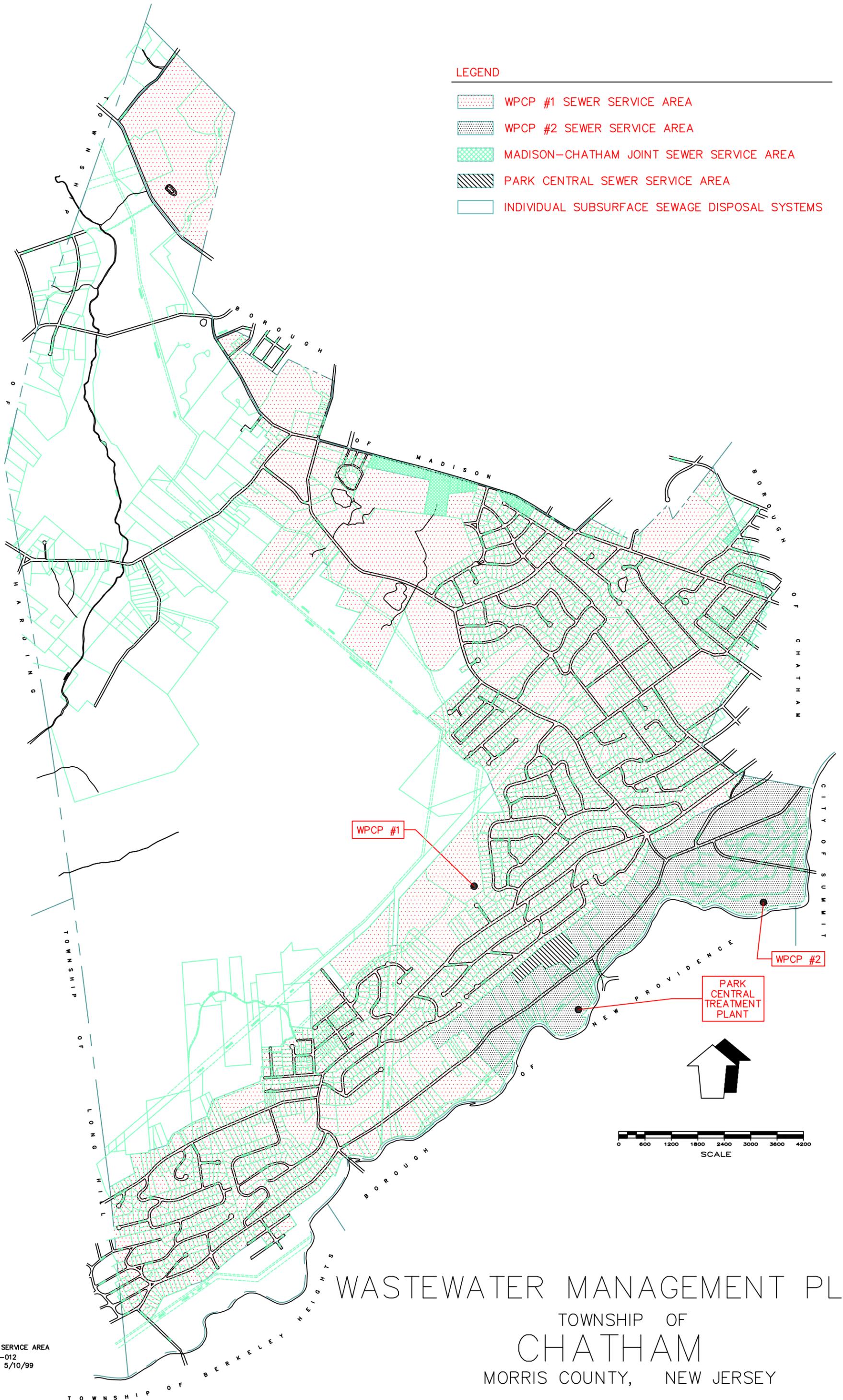
MORRIS COUNTY, NEW JERSEY

ADOPTED: OCTOBER 18, 1999
 MAP PREPARED: JULY 1, 1999

PREPARED BY ROBERT CATLIN AND ASSOCIATES
 CITY PLANNING CONSULTANTS DENVER, NEW JERSEY

LEGEND

-  WPCP #1 SEWER SERVICE AREA
-  WPCP #2 SEWER SERVICE AREA
-  MADISON-CHATHAM JOINT SEWER SERVICE AREA
-  PARK CENTRAL SEWER SERVICE AREA
-  INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEMS



WPCP #1

WPCP #2

PARK CENTRAL TREATMENT PLANT

REFERENCE: SEWER SERVICE AREA
Ord 99-012
Revised 5/10/99

ADOPTED: OCTOBER 18, 1999
MAP PREPARED: AUGUST, 1999

WASTEWATER MANAGEMENT PLAN

TOWNSHIP OF
CHATHAM
MORRIS COUNTY, NEW JERSEY

PREPARED BY ROBERT CATLIN AND ASSOCIATES
CITY PLANNING CONSULTANTS DENVER, NEW JERSEY

The above referenced ordinances are located in the Appendix and are incorporated as part of the Wastewater Management Plan.

STORMWATER MANAGEMENT PLAN

Among the utility elements sometimes included in a Master Plan is a Stormwater Management Plan. The purpose of such an element is to coordinate land use proposals with the ability of the municipality, working with developers, to effectively control stormwater runoff in terms of both quantity and quality. In Chatham Township, stormwater management is directly related to the Wastewater Management Plan and the Great Swamp Watershed.

On February 13, 1998, the Township Committee adopted Ordinance 97-001 which is known as the Great Swamp Watershed Overlay District Stormwater Management Ordinance. This ordinance was adopted in response to a condition established by DEP in approving the Township's Wastewater Management Plan that the Township take all steps necessary to guarantee that development projects within the Great Swamp Watershed result in "no net increase" with respect to both stormwater quantity and pollutant loadings. The purpose of the Ordinance is to require applications for development within the watershed to include a Stormwater Management Plan which will achieve, to the greatest extent possible, no net increase in runoff or pollutant loads. The plan should provide a strategy for control of impacts within the watershed.

In furtherance of these objectives, Township engineering consultants CH2M issued a "Stormwater Management Planning Report: Stormwater Management Plan, Water Conservation Plan, Streamflow Monitoring" in May, 1999. That report provides the necessary background for implementing stormwater management proposals as found in the "Stormwater Management Plan Goals and Objectives-Recommended Mitigation Measures" report (Maser Sosinski, 1997). The primary goal of the Stormwater Management Plan is the implementation of Ordinance 97-001 and the land use recommendations found in the Master Plan. The CH2M report documents the information that has been developed to implement the Stormwater Management Plan, specifically, Ordinance 97-001.