Integrating the traditional master plan with that of asset management was the approach chosen by Water and Sewer Authority of Cabarrus County (WSACC) to assess future investment needs. The Master Plan provides understanding of capacity, regulatory and demand issues faced by an organization, while looking for improvements and understanding long-range impacts. WSACC’s plan illustrates a 20 year horizon, incorporating changes for water and wastewater services provided to the growing region, not only in the transmission and treatment areas but raw/finished water management and water reuse areas.

Asset Management is a strategic and systematic application of management practices applied to infrastructure assets. This project allowed for an introduction of alternative, or new techniques to assist in sustaining infrastructure at all levels managed while allowing for reliable and effective delivery of services to WSACC’s customers.

This paper will discuss approaches taken to complete both the asset management and master plan, while keeping the focus of planning for capital improvement programs and future investment needs.