

## **INDUSTRIAL PRETREATMENT PROGRAMS**

MWY has a great deal of experience in assisting client cities in the development and/or implementation of industrial pretreatment programs. For example, work in Batesville, Harrison, Jonesboro, and Paragould has extended over a period of years as new EPA regulations forced modifications and revisions. Services have included, but not been limited to, assistance in the development of local limits as required by NPDES permits, review of programs and ordinances for compliance with current regulations, modifications to programs and ordinances as required, and drafting of enforcement plans in response to EPA Administrative Orders.

## **UTILITY RELOCATION PROJECTS**

MWY has extensive experience in providing the engineering services required to adjust water and sewer facilities when highways are to be relocated. This experience dates back over many years. Examples of such projects are set out below.

1. Relocation of water and sewer facilities for Springdale Water Utilities in connection with reconstruction of Gutensohn Road, 40<sup>th</sup> Street, and the Southern Corridor (40<sup>th</sup> to 48<sup>th</sup> Street). This project is in the design phase.
2. Water and sewer adjustments for Springdale Water Utilities have been ongoing for more than thirty years and has involved the construction of Highways 540, 412, 71, and numerous city streets.
3. Relocation of water and sewer facilities for the Clarksville Light and Water Commission in connection with improvements to Arkansas Highway 123.
4. MWY has assisted the city of Batesville in the relocation of water and sewer facilities on numerous projects beginning in 1991 and continuing through 2008. The construction cost of these facilities to-date is approximately \$3 million.

## **SOLID WASTE FACILITIES**

MWY provided engineering services to the city of Fayetteville in the design and construction of a solid waste transfer station and materials recovery facility. The combined capacity is over 300 tons per day for the two facilities. MWY worked closely with city officials to assure that the new facilities were in accordance with the city's present and future needs. Preliminary studies, reports, detailed design, plans and specifications, and construction

observation services were provided. Construction was completed in 1996 at an approximate cost of \$1.3 million.

The firm provided engineering services in the design and construction of improvements to the recycling facilities. These improvements consist of offloading facilities for compartmentalized recycling trucks. The facilities accommodate eight rolloff containers and provide for elevated discharge of recyclable materials from the recycling trucks into the rolloff containers. The access ramp, offloading platform, and retaining walls are of concrete construction. Construction of the facilities was completed in December 1998 at a cost of approximately \$200,000.

## **SPECIAL PROJECTS**

MWY staff members are especially pleased to have been selected to provide engineering services in connection with two projects located in the city of Springdale which have been made possible through the interest and generosity of a private citizen. In each case, the work is being done in cooperation with other professionals who provide services in the area of their particular qualifications and experience.

The first project is a development known as Har-Ber Meadows encompasses approximately 450 acres west of the city. The goal is to create a "village type" community, which will include not only residential units but also some commercial establishments as well as neighborhood parks, bike paths, and small lakes. Parcels will also be reserved for other types of community uses such as a church, an elementary school, a daycare center and a community center.

MWY was responsible for professional engineering advice in overall coordination of the project; design of water, sewer, street and drainage facilities; platting of the phases of the development; coordination of photogrammetry and geotechnical engineering services; boundary and topographic surveys, and other assistance as may be requested by the owner. Much the same services were provided for the Harvey and Bernice Jones Center for Families. This facility combined an ice-skating rink, a swimming pool and a gymnasium along with meeting rooms and community space. The complex is situated on a 34-acre campus-like setting. The site includes a 250,000 square foot activities building and a 50,000 square foot office complex to house family-oriented services.

This project required the planning and design of the typical infrastructure improvements of access drives, parking areas, water and wastewater facilities, storm drainage, area lighting, sidewalks, etc., all integrated into a non-typical, intensely landscaped setting. Site planners and designers were charged with the responsibility of creating a pleasant outside human environment among access and parking facilities for over 750 vehicles. All design elements were arranged in spaces with sufficient allocation to allow for intensely landscaped areas to minimize the impact of both parked and moving vehicles. A creative storm water drainage system was designed to improve the safety and comfort of pedestrians during periods of rainfall. All outside areas were lighted with a soft, low-intensity lighting system.

## **FUNDING OF IMPROVEMENT PROJECTS**

Over the years, MWY has made every effort to stay abreast of the latest information regarding funding sources, and is prepared and willing to assist client cities in securing available funds for public improvement projects.

The \$22 million Carroll-Boone Regional Water System completed in the early 1980s offers a good example of the firm's experience in helping to obtain financing for projects of this nature. Funding for the Carroll-Boone project included a combination of federal loans and grants and commercial bond issues.

MWY currently has projects under way which involve financing by various agencies. These include the Arkansas Economic Development Commission, the Arkansas Department of Environmental Quality (Revolving Loan Fund), the Farmers Home Administration, and the Economic Development Administration.

In addition, MWY has worked with several investment bankers in the state (most recently Stephens, Inc. and Morgan Keegan) in the development of revenue bond issues. This work frequently includes rate analyses, development of operation and maintenance budgets, and cash flow projections.

