

Carson City Sanitary Sewer Collection System Master Plan

Carson City, NV



CLIENT

Carson City Sanitary Services Division

SCOPE OF SERVICES

Existing System Inventory

Field Verification Survey

"Hydra" Computer Model Creation

GIS Coordination

Base Map Preparation

Freeway Relocation Prioritization
Needs Assessment

5 & 20 Year Capital Improvement
Program Identification

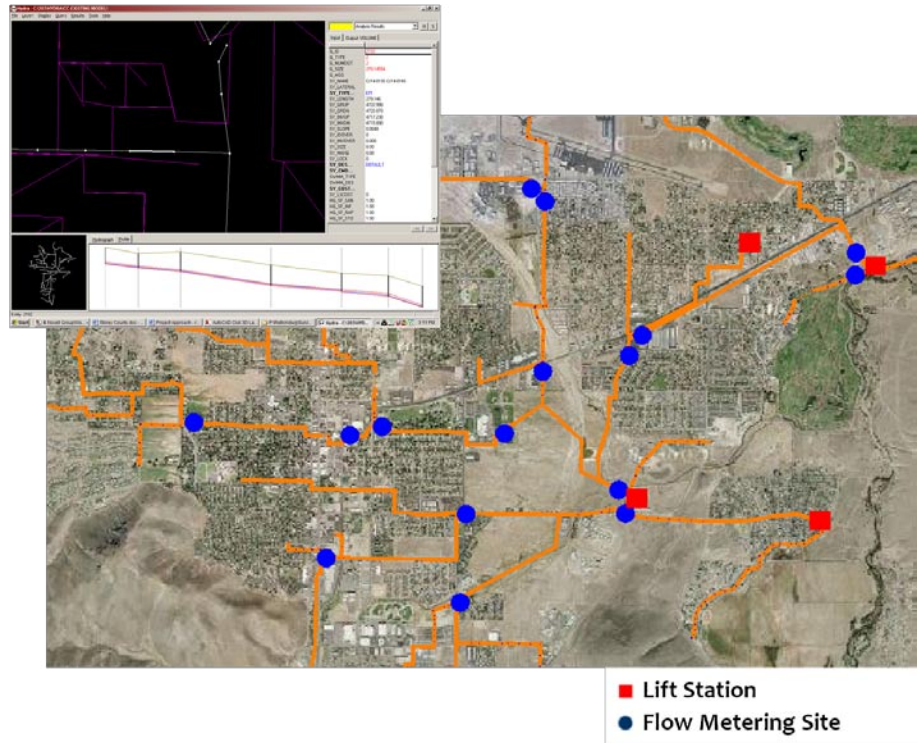
Facility Replacement/Upgrade Cost
Analysis

Recommendations for City Design
Standards Revisions

Phase 1-3 Master Plan Report
Preparation

PROJECT DURATION

Ongoing



This project has been contracted under three separate phases and involves preparation of a comprehensive Master Plan for the Carson City Sanitary Sewer Collection System. The Master Plan outlines capital improvements related to continued growth within the city and provides a plan for rehabilitation and replacement of the existing city sanitary sewer collection system. The Sanitary Sewer Collection Master Plan effort includes coordination with the Carson City GIS system, review and inventory of the existing system data, review and substantiation of the current city ordinances, development standards and guidelines. The master planning work also includes coordination with State and Federal Regulatory Agencies, preparation of a system wide computer model for evaluation of current and future improvements, identification of short-term and long-term capital improvement requirements and a rehabilitation/replacement plan.

In order to effectively coordinate the Sanitary Sewer Master Plan effort, the project has been broken down into three (3) distinct phases as described below:

Phase One: This portion of the project involved preparation of a detailed city-wide base map incorporating record drawing research combined with GIS and conventional survey measurements to locate principal existing sanitary sewer facilities. This effort provided the opportunity to coordinate the overall master planning effort with Carson City staff and the city's GIS system consultant. The report provided a detailed inventory and presented the initial review of the existing sewer system data. Finally, Phase One presented the initial proposal for the 5-year capital improvement program for use in the final master planning effort. This portion of the consulting work was completed in 2003.

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Phase Two: The Phase Two effort culminated with the preparation of a detailed report presenting conflict locations where sanitary sewer utilities required relocation in advance of construction of the U.S. Highway 395 Freeway through Carson City from U.S Highway 50 to Spooner Junction. This report also identified base flow rates for the city which were based on land use and zoning for existing development, build-out within the city, and possible future land use zone changes that would increase sewer flow rates. The Phase Two portion of this contract work was completed in 2004.

Phase Three: Phase Three will consists of a detailed survey of the system attributes not already obtained, flow monitoring and the completion of the computerized sewer model compatible with the city's GIS system. Phase Three will have a summary report complete with design and construction standards, rehabilitation and replacement plan, and the recommended 5-year and 20-year capital improvement program.