



Gerald R. Williams, P.E.

President

Resume of Wastewater Engineering

Gerald has 24 years experience with emphasis in sewer or wastewater studies, master plans, collection system designs, and lift stations. In recent years through 2004, Gerald has designed over 220,000 feet of gravity flow sewer in areas of existing infrastructure, and approximately double that outside of existing improvements, over 15,000 feet of force main, a number of aerial pipelines, horizontal bores, and open cut crossings of rivers and drainageways, 7 regional and 11 local sewage lift stations, and has developed a computer program to assist in the design of lift stations.



Studies & Masterplans Gerald has performed 9 sewer studies and master plans. The Northern Gila County Sanitation District, AZ study involved 24.9 square miles and included analyses, projections, and recommended priority upgrade improvements through build-out conditions. The Town of Red Cliff, CO 201 Study included inflow and infiltration evaluation and proposed reduction and improvements. The North Delta, CO Sewer Feasibility Study involved a 3.5 square mile area, very high ground water, a river crossing, lift station, and evaluating conventional and various alternative sewage systems including flat grade sewers, grinder pressurized, septic effluent pumped (STEP), and vacuum systems. The Scenic School Interceptor, CO Feasibility Study involved nearly two miles of interceptor sewer line, one under river crossing, two aerial river crossings, and a lift station. The Country Club Park, CO Sewer Feasibility Study involved 65 lots, with consideration for conventional, STEP, and grinder pressure systems. The Fruita, CO Community Master Plan Update (2020 Plan) involved a sewer master plan update for the entire community, population 8000. The D Road Interceptor Feasibility and Cost Study (CO) involved conceptual plan and detailed profile of 25,800 linear feet of 18 inch to 30 inch sewer line, with crossings of another district's sewerlines, storm drain and large water lines, and five major drainageways, and detailed costing. The Fruitvale Sanitation District, CO study involved flow monitoring, estimating system-wide build-out flows, televising lines, and capacity evaluation. The Grand Jct. Combined Sewer Separation Study, CO involved modeling, analyses, and masterplan for separating 3.75 square miles of downtown combined sewer.

Registration

Professional Civil Engineer:
Arizona # 22924
Colorado # 26481
Idaho # 11519
New Mexico #16937
Nevada # 16997
Utah # 188947-2202
Wyoming #10410

Certifications

ASFPM Certified Floodplain
Manager (CFM)
CDOT Certified Erosion Control
Supervisor (CECS)

Education

B.S. (Civil Engineering)
Northern Arizona University

Professional Societies

American Public Works Assoc.
American Water Resources Assoc.
Association of State Floodplain
Managers (ASFPM)
Colorado Association of
Stormwater and Floodplain
Managers (CASFM) [Co-
Founder, Former Vice-Chairman,
and Regional Representative]
Northwest Floodplain Managers
Association (NORFMA)

LID's and SID's Gerald has performed the design for 10 sewer or local improvement districts. Each one involved interaction with each property owner (over 1000 through 2004) and evaluation of their septic system to assess their specific needs and wants with respect to sewer service and connection to a proposed main line. For nearly 600 of those property owners, detailed plan and profile drawings were provided for the on-lot services that would not be constructed by the district, but nonetheless were useful in the overall design and to the property owner. Projects included lift station design and abandonments and involvement with various state and federal agencies. Two projects alone, completed over an 8 month period by Mr. Williams, involved 57,529 feet of sewer line, 448 complete sewer service designs, with 10,000 feet of service trench, the abandonment of three lift stations and the design of two new lift stations, 4,402 feet of force main, 570 plan and profile sheets, and extensive coordination with 435 property owners.

Collection Systems and Lift Stations Gerald has designed many sewerline extension, replacement, and rehabilitation projects. Lift stations include submersible, surface and recessed wet well mounted lift stations, and flooded suction wet well and dry well stations. Designs include variable frequency drives and web-based SCADA ethernet radio monitoring systems and power backup systems.