

TECHNICAL SERVICES

Our engineering staff consists of highly specialized professionals that are capable of providing services in the following areas:



Development Services: commercial and site development design; residential land development due diligence studies; master planned communities infrastructure services including master plans for water, sewer, and drainage; final design of arterial roadways, utility transmission mains, pump stations, reservoirs, detention basins; construction staking, parks; subdivision improvement plans and final plats; preliminary construction budgets, bidding, utility coordination, and construction management scheduling of subcontractors until final acceptance.



Transportation Engineering: location and route studies, design concept reports, highway and major and local street design, signing and striping plans, drainage analysis and design, utility infrastructure/relocation, right-of-way analysis and plans, legal descriptions and exhibits, construction management, value engineering, quality/constructability reviews, comprehensive project management, public involvement, agency coordination.



Water Resources Engineering: area drainage master plans, roadway drainage systems, detention/retention basins, FEMA floodplain delineation studies, scour analysis, water recharge, CLOMR/LOMR, ponding/backwater inundation analysis, drainage manuals, site development grading and drainage, dambreak analysis, channels/drop structures, storm drains/culverts, jurisdictional dam permitting/design GIS facility inventory.



Water/Wastewater Engineering: water transmission main design, booster pump station design, water system appraisals, water and sewer master plans, sanitary sewer line design, public involvement programs, sewer lift station design, pipeline rehabilitation, agency coordination.



Field Services: control, boundary, ALTA and topographic surveying, construction staking and as-builts, constructability/bidability/operability reviews, pre-bid assistance, quality assurance, pre-construction conferences, post-bid assistance, and construction inspection/observation/monitoring. Respond to contractor requests/plans interpretation, administer weekly meetings and distribute minutes, submittal review, and review as-built plans for accuracy/completeness.



GIS Services: Mapping, data collection and development, database creation, systems modeling and analysis, infrastructure design and management, asset inventory, three dimensional graphic presentation, watershed analysis, custom geoprocessing tools, and other applications in existing engineering services areas.