



# MATRIX **NEW**WORLD

Engineering Progress

## CIVIL ENGINEERING SERVICES

### **Matrix is multi-disciplinary.**

Matrix has a diversified staff of engineers, planners, and landscape architects who are experts at integrating new construction within existing communities. Our understanding of state and local permitting processes expedites the regulatory submissions and minimizes the public review process. The design team focuses on creating site plans that are sensitive to the community and environment while achieving land improvements that are functional and aesthetic.

Site development in this age of numerous and varied regulatory requirements requires professionals who are skilled in grading, drainage, utilities, roadway, earthwork, and site lighting design, as well as environmental impact and land use permitting. Our experience with civil and site design of a wide variety of facilities ranging from schools, parks, medical centers, commercial development, petroleum storage, and distribution facilities has exposed us to a myriad of regulatory requirements on the local, state, and federal levels.

Matrix also provides civil engineering services geared to the development of major transportation, infrastructure and facility projects for public sector clients including airports, ports, highway, and rail facilities.

Land development continues to become more and more challenging. Many state and municipal governing bodies have adopted the principals of, and are encouraging, "smart growth." This concept encourages the redevelopment of urban and suburban sites taking advantage of existing infrastructure and intelligent planning incorporating solutions.

### **Services provided**

- Site/Concept Planning
- Coordination with Regulatory Agencies
- Construction Administration/Management
- Rough & Finish Grading Plans
- Stormwater Management
- Roadway Design
- Site Feasibility & Cost Studies
- Parking and Traffic Analysis
- Environmental Studies
- Retention/Detention Basins
- Land Surveying & Mapping
- Site Lighting
- Soil Erosion & Sediment Control Plans
- Soils Investigations & Surveys
- Infrastructure Planning & Design
- Cut/Fill/Haul Calculations
- Landscape Architecture
- Wetland/Wastewater System
- Geographic Information System (GIS)
- Environmental Permit Acquisitions
- Local Zoning/Planning Board Expert Testimony
- HECRAS Modeling

### **Contact**

#### **Matrix New World Engineering**

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