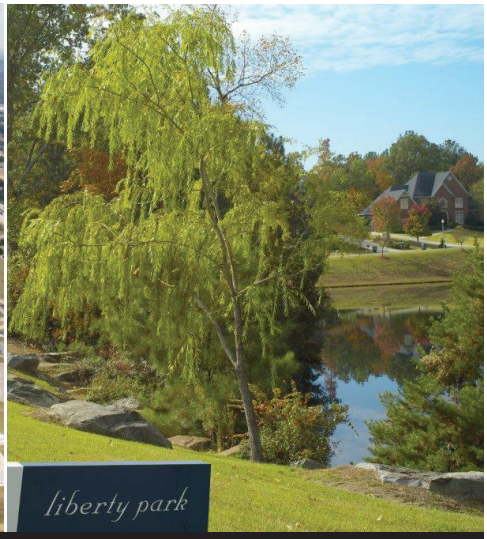
SCHOEL
Consulting Engineers

Civil Engineering | Surveying | Environmental | Water Resources | High Definition Surveying & 3D Modeling

FIRM OVERVIEW



Who We Are

Schoel Engineering is one of the most experienced and technically diverse firms in the Southeast. Based in Birmingham, AL, the company was formed in 1888 by Herman Schoel. Originally known for its surveying capabilities, the firm has grown to offer the full continuum of engineering services including: civil, environmental, water resources, high definition surveying and 3D modeling, along with the traditional surveying work. Our clients know we are with them for the duration of a project.

Why Choose Schoel

Experience matters, especially when it comes to preparing for a construction project. Builders and developers need a partner they can trust, someone who knows the landscape—literally. Schoel was founded on providing high quality work. Over the years as the profession has grown, so has our firm. We now have five different areas of specialization, employ the latest technology, and offer clients a multidisciplinary approach that encompasses the entire project, not just one aspect. When you need solutions, look to Schoel Engineering.

Leaders In The Field

When you choose Schoel, you are selecting a leader in the industry. Below is a list of some of our notable projects.

- Regions Field (Home of the Birmingham Barons) — 14 acres, minor league baseball complex
- Honda Manufacturing (Lincoln, AL & Tallapoosa, GA) — 1500 acres and 500 acres respectively, manufacturing site development and expansion
- Liberty Park - 3600 acres, mixed use development
- University of Alabama at Birmingham (UAB) — multiple campus expansion and redevelopment projects
- The Shops of Grand River — 80 acres, retail development involving $8.3 million site work package
- Benjamin Russell Hospital for Children (Children's Hospital of Alabama) — downtown hospital expansion
- Railroad Park — 17 acres, urban park development

Market Sectors

- **Industrial**
- **Commercial**
- **Residential**
- **Institutional**
- **Healthcare**
- **Infrastructure**
- **Government**

ENGINEERING HALL OF FAME
STATE OF ALABAMA

Member of the Alabama Engineering Hall of Fame

P: (205) 323-6166 | F: (205) 328-2252 | 1001 22nd Street South | Birmingham, Alabama 35205 | schoel.com

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ENVIRONMENTAL

Most development projects start with some level of environmental review. Schoel Engineering has the experience and knowledge to manage this process from concept through construction. We know the environmental landscape, the level of review required, the permitting process and the compliance issues that make getting dirt moved possible. In addition, we do it in a way that mitigates risk and manages costs. When you work with Schoel, you get solutions that satisfy both your vision and regulatory requirements, providing seamless implementation.

Specific Services:

U.S. Army Corps of Engineers Section 404 Permits
- Stream and Wetland Delineations
- Nationwide and Individual Permits
- On-site Compensatory Mitigation Design, Implementation, and Monitoring

NPDES Permitting and Compliance
- Phase I and II Municipal Separate Storm Sewer System (MS4)
- Industrial (General and Individual)
- Construction Site
- Inspections/Monitoring

NEPA Compliance
- Environmental Assessments
- Environmental Impact Statements

Low Impact/Green Development
- Planning and Design Services
- Design of Bioswales, Rain Gardens, Extended Detention, and Constructed Wetlands
- LEED Project Certification

Water Quality Monitoring
- Wet and Dry Weather Sampling
- Storm Sewer Outfall Screening
- NPDES Monitoring
- Illicit Discharge Detection and Elimination Outfall Screening

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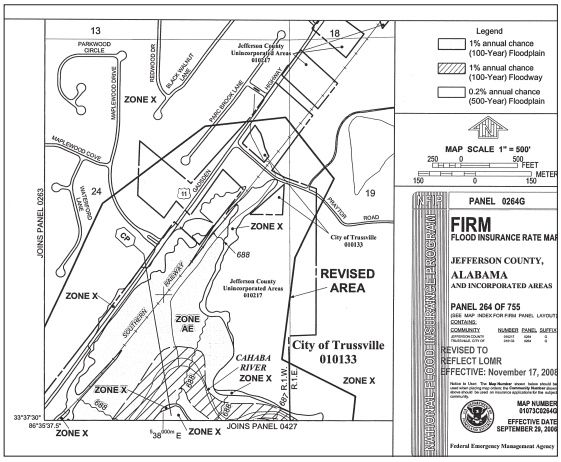
WATER RESOURCES

Seventy percent of the earth is covered in water. Let Schoel Engineering's team of expert hydrologists help you manage that small percentage involved in your project. From hydrologic and hydraulic analysis of large waterways to local drainage facilities, we help clients with municipal, residential, industrial and commercial projects of all sizes. Our expertise has allowed us to work on many significant projects that have benefited communities and business. We are vested in providing our clients with expert technical analysis for the benefit of generations to come.



Services include:

- Hydrologic and Hydraulic Modeling
- Flood Mapping
- FEMA Letters of Map Change (LOMA, LOMR-F, CLOMR, LOMR, etc.)
- Flood Mitigation Project Assessment and Design
- Flood Forecasting
- Radar/Rainfall Analysis
- Expert Testimony
- FEMA National Flood Insurance Program and Community Rating System Consultation

VGAUGE

Your virtual rain gauge

FEATURES

Anywhere
Your virtual rain gauge can be anywhere in the U.S.

Maintenance
With VGauge, there are no hassles or headaches replacing batteries, emptying collected rainwater, or cleaning debris out of the gauge.

Alerts
Custom notifications can be set for a VGauge site based on total rainfall within a period of time (for example: send alert if total rainfall is greater than 1 inch in a 24-hour period). These can be sent via email or text message.

Radar Based Rainfall
Our system uses radar to calculate the rainfall from a precipitation event

Forecast
VGauge can be your on-site weatherman, providing alerts if the forecast rainfall triggers a custom notification.

Reporting
Precipitation reports are provided following a rainfall event. Monthly reports are also provided that include the daily precipitation totals for the month.

VGAUGE
Your virtual rain gauge

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ABOUT

VGauge is a service of Schoel Engineering.

Schoel Engineering, located in Birmingham, Alabama offers Consulting Civil Engineering, Hydrologic and Environmental Consulting, Land Surveying and Laser Scanning services. Schoel Engineering has been in business since 1888 and is the oldest engineering firm in the State of Alabama.

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Find out more at:
schoel.com
vgauge.com

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