



TABLE OF CONTENTS

INTRODUCTION & PHILOSOPHY	1
FOCUS	1
CORPORATE COMMITMENT.....	3
FIRM BACKGROUND	3
SERVICES	4
SCHOOL PROJECTS.....	5
TxDOT PRE-CERTIFICATION	6
MEMBERSHIPS	7
ADDITIONAL REGISTRATIONS.....	7
TEAM QUALIFICATIONS	8
AFFILIATIONS	10
ADDITIONAL RESOURCES.....	10
CORPORATE REFERENCES	11
APPENDICES.....	12-17



INTRODUCTION & PHILOSOPHY

Benchmark Design Group (Benchmark) is a progressive civil and environmental engineering firm committed to excellence. **Benchmark** offers a full complement of Civil and Environmental engineering services for both the private and regulated communities.

Benchmark provides a wide range of consulting services to serve clients in land developments, roadways, bridges, traffic signals, water and sewer distribution systems and facilities, and landscaping. We are civil and transportation engineers; urban and land planners; and environmental specialists.

We provide conformance planning for the Texas Commission on Environmental Quality (TCEQ) on Stormwater Pollution Prevention Permitting (SWPPP). We also provide a wide complement of construction administration services to ensure that our clients receive the desired end result.

Benchmark provides civil engineering services for commercial, residential, and industrial developments, from initial site feasibility studies, planning, re-zoning, construction plans, construction layout and management, to grand opening or plant start-up. Specific services include, but are not limited to, the following:

Subdivision design, paving and drainage, site grading, drainage, and utilities, Flood studies, including F.E.M.A. approved, erosion control, and storm water pollution prevention plan, site planning, subdividing, platting, and zoning of land, highway design, railroad design, dams and reservoirs, waste water collection systems, and treatment plant design, Water supply, treatment, and distribution systems, Coordination of inspection and supervision, Cost estimating, Contract or "bid" documents and negotiation and Construction administration.

FOCUS

The focus of **Benchmark** is "Achieving Goals *by Design*". We provide high-quality, cost-effective, and timely service. The objective of our firm is to serve our customer and complete projects according to the client's specifications, within an agreed upon budget, and on a realistic schedule. The strength of **Benchmark** is built upon client service and the day-to-day involvement of Ed Snodgrass and Greg Mitchell. Our focus is client response, reality-based design, and value engineering.

Benchmark functions with a team approach in mind on all projects. Our corporate structure is one in which the Principal-in-Charge shares in the same goals as the Project Manager. This philosophy resonates down through each member of our team to ensure that the client's best interests are served. We become an integral process of partnering meetings. This allows the design team, for all disciplines, a chance to meet and interact with each other and subsequently develop a better chemistry and unity.

CORPORATE COMMITMENT

Benchmark is committed to providing the client with a valued service that meets or exceeds their expectations in a timely manner. While the health, safety and welfare of the public are an engineer's first responsibility, they become an integral part of every aspect of engineering that we provide for our client. Our corporate slogan is "Achieving goals *by Design*". This speaks to the very heart of our mission. Accomplishing the goals originally planned can be a difficult task. If not planned appropriately, these goals will never be achieved. That's why we take it so seriously. Your goal becomes ours as our team forges ahead. You have our commitment.

FIRM BACKGROUND

Benchmark is a multi-disciplined firm. We offer virtually every aspect of civil engineering in-house. With staff backgrounds including experience with the Texas Department of Public Transportation (TxDOT), Florida Department of Transportation, petrochemical industry, municipal engineering and private sector engineering, the firm and its clients benefit from varied aspects of design. **Benchmark Design Group, LLC** was founded by Ed Snodgrass, PE, REP at the beginning of 2004. Prior to this he worked for the Texas Department of Transportation (TxDOT). He later moved from this position to become an engineer with the City of Tyler – Engineering Department. Subsequently, he worked for a consulting firm, where he ultimately became an owner and was their Sr. Vice President over their engineering operations. His desire to provide the highest quality of customer care prompted him to form **Benchmark**. It is this drive that keeps them attentive to the needs of every client.

SERVICES

Benchmark provides civil engineering services for commercial, residential, and industrial developments, from initial site feasibility studies, planning, re-zoning, construction plans, construction layout and management, to project start-up. Additionally, we provide planning and design services for governmental agencies. Specific services include the following:

- Elementary through college level institutions and campuses
- Multi-Family housing
- Hospital facilities
- Church buildings and retreat centers
- Subdivision layout and design (roadway, water systems, sewer systems, etc...)
- Site design including paving and drainage design, grading layouts, drainage analysis and utilities
- Flood studies, including F.E.M.A. submittals and approvals
- Erosion control, and regulatory Storm Water Pollution Prevention Plan preparation (SWPPP's)
- U. S. Army Corps of Engineers (Corps) Permitting for wetlands and Waters of the U.S.
- Site planning for commercial, industrial and office complexes
- Subdividing, platting, and securing land entitlements
- Highway design for Departments of Transportations (DOT's) and private entities
- Railroad design
- Dams and reservoir design
- Waste water collection systems, and treatment plant design
- Water supply, treatment, and distribution systems
- Coordination of inspection and supervision
- Cost estimating, Contract or "bid" documents preparation and Construction administration
- Full service environmental engineering, including air, soil and water
- Design-Build and/or Construction Management
- Large scale Distribution Centers

SCHOOL PROJECTS

Mr. Snodgrass has been the lead or project engineer on many school projects. He has managed the project with the architect, and worked directly with the school district. Some of the projects he has worked on are as follows:

Tyler I.S.D.

Plans, specifications and estimates (PS&E) for new athletic field house (Robert E. Lee campus).

Chapel Hill I.S.D.

Topographic mapping, PS&E and construction administration for Fine Arts building and parking lot improvements.

Bullard I.S.D.

PS&E and construction administration for new high school campus facility.

University of Texas at Tyler

PS&E and construction administration for the Braithewaite Nursing and Health Sciences Building.

PS&E and construction administration for Engineering, Sciences and Technology (EST) Building.

PS&E and construction administration for the Braithewaite parking lot.

PS&E and construction administration for the Cowen Center parking lot.

PS&E and construction administration for the U. T. Tyler – Palestine Campus.

Brookhill Schools

PS&E and construction administration for the original campus facility.

Grace Community Schools

Topographic surveying, site grading and consulting.

Harmony I.S.D.

PS&E for wastewater treatment plant.

Forney I.S.D.

PS&E for drainage and parking lot issues.

Mildred I.S.D.

PS&E for football field drainage and parking lot issues.

Grand Saline I.S.D.

PS&E and construction administration for new high school campus facility.

TXDOT PRE-CERTIFICATION

Because of the type of work performed by **Benchmark** and its staff, we are proud to be per-certified by the Texas Department of Public Transportation (TXDOT) in the following areas:

1.4.1 Land Planning/Engineering

3.1.1 Route Studies and Schematic Design (minor roadways)

3.2.1 Route Studies and Schematic Design (major roadways)

3.4.1 Minor Bridge Layouts

3.5.1 Major Bridge Layouts

4.1.1 Minor Roadway Design

4.2.1 Major Roadway Design

10.1.1 Hydrologic Studies

10.2.1 Basic Hydraulic Design

10.4.1 Pump Stations/ Hydraulics

MEMBERSHIPS

At **Benchmark**, we feel that it is important to become involved in the professional organizations of our trade. Below is a sampling of some organizations of which we are members:

American Public Works Association
National Society of Civil Engineers
American Society of Civil Engineers
Texas Society of Professional Engineers
Various Chambers of Commerce
Civic Clubs
Local Planning / Advisory Committees

ADDITIONAL REGISTRATIONS

Throughout our careers, it became necessary to become licensed in multiple states. Below is a list of those which we currently have licensure:

Arkansas	New Mexico
Arizona	Nevada
Colorado	North Carolina
Kansas	South Carolina
Louisiana	Tennessee
Oklahoma	Texas
Ohio	Utah
Nebraska	Virginia

Depending upon your needs, we can obtain additional licensure as needed.

TEAM QUALIFICATIONS

Benchmark is dedicated to client service and strives to exceed your expectations. The team at **Benchmark** has an abundance of knowledge and experience to draw upon when it comes to your project. Our knowledgeable team will guide and assist you from the developmental and planning stages through to the analysis, design and construction administration stages of your project.

Civil engineering is a dynamic field and as technology and regulations change we evolve with them. **Benchmark** has dedicated itself to seeking out the most qualified personnel with the skills and contacts to ensure that your project receives the highest levels of quality control and cost effective solutions. We encourage all members of the **Benchmark** engineering team to participate in professional societies that help guide the future of civil engineering. Some of the societies our staff is active in include the American Society of Civil Engineers, National Society of Civil Engineers, American Public Works Association, and the Texas Society of Professional Engineers. **Benchmark** prides itself on having the most up to date software, hardware and engineering design tools available, helping to ensure that each plan set we issue exceeds industry standards.

Listed below are the professional profiles of our key personnel.

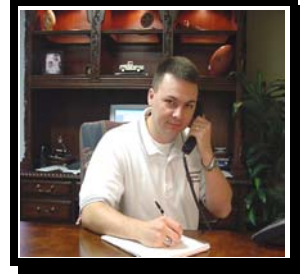
Ed Snodgrass, P.E., REP, President

Mr. Snodgrass graduated from Texas A&M University with a Bachelor's Degree in Civil Engineering. He has worked in the private sector for many years. Prior to this he worked for the Texas Department of Transportation (TxDOT). He later moved from this position to become an engineer with the City of Tyler – Engineering Department. Subsequently, he worked for a Tyler, Texas based consulting firm, where he ultimately became an owner and was their Sr. Vice President over their engineering operations. While his specialty is in hydraulics and hydrology, his background has covered virtually every aspect of civil and environmental engineering, planning, and land development. In the most recent years, he has focused on land development for commercial and residential properties. Site planning and property evaluations are some of his strengths.



Greg Mitchell, P.E., Vice President

Mr. Mitchell graduated from Auburn University with a Bachelor's Degree in Civil Engineering. He has worked in the private sector for many years. His experience while working in Florida, was primarily designing Florida Department of Transportation projects. Since moving to East Texas, he has worked on private developments, public infrastructure projects, and subdivision designs. One of his primary strengths is in the Hydraulics and Hydrology sector where he is continually analyzing existing systems, designing new and preparing reports to accompany his findings. Mr. Mitchell also possesses a keen knowledge of site design and general commercial development. While in the private sector he has designed many stormwater systems integral to site and roadway projects. He has also been the project manager for many water and sanitary sewer distribution and collection systems. He is a well-rounded engineer who has the knowledge and strength to lead design teams and coordinate diverse disciplines to achieve the goal of producing a quality set of construction documents which are value-engineered and of top quality. Greg strives to provide the most cost effective solution for the project at hand while maintaining a personal relationship with the client.



Marvin Snodgrass, Construction Manager

Mr. Snodgrass has an extensive background in the engineering, construction, and customer service industry. He then spent 27 years with T. U. Electric in Gainesville, Sulphur Springs, Mesquite and Paris, Texas as District Engineer and Customer Service Manager in charge of engineering and marketing. Subsequently, he obtained his real estate license and sold over 5 million dollars worth of commercial and residential real estate in the East Texas area for Coldwell Banker United Real Estate (formerly Pirtle Real Estate).

His expertise in the engineering, development, real estate and construction fields gave him the experience to develop residential subdivisions, and build and/or remodel a number of residential houses.

As Construction Manager, he demands organization, attention to detail, an ability to see the "big picture," and an understanding of all facets of the construction process. He is the intermediary between our clients, the construction team, the design team, and any regulatory personnel. The wide range of responsibilities that he faces means that he has a wide variety of skills and knowledge, standard construction techniques, blueprint reading, budgeting, and purchasing.

Typical construction administration activities that he performs includes site observations, coordinating with contractors, bid administration, answering requests for information (RFI's) and reviewing monthly pay requests. Additionally he will provide random observation of water and sewer utilities construction, provide random observation of curb/gutter, paving, and drainage features, provide contract administration with Client and contractors, and coordinate with contractor to provide "as-built" drawings.

AFFILIATIONS

Benchmark has formed an informal consortium with another environmental consulting firm that shares **Benchmark's** focus: ERI Consulting, Inc. (ERI). ERI specializes in providing quality environmental consulting services in a variety of disciplines, specializing in airborne contaminants.

The use of this partnership effectively provides clients with consistency in the approach to and solutions of a full sweep of environmental issues.

ADDITIONAL RESOURCES

Listed above is a key sampling of **Benchmark's** core personnel. It is **Benchmark's** belief that with this kind of depth and diversity, our staff is able to successfully complete any task at hand on time and within budget.

Throughout the years we have managed to develop working relationships with several quality sub-consultants whose services compliment our own areas of expertise. A sample of sub-consultant services might include boundary and topographic surveys, construction staking, geotechnical engineering, landscape and irrigation design, wastewater treatment plant design and structural design.

CORPORATE REFERENCES

Frank Gadec, President
Sherman Economic Development Corporation
307 W. Washington – Suite 102
Sherman, Texas 75090
(800) 981-2566

Daniel Arthur, President
Daniel Arthur Surveying, LLC
2026-B Republic Drive
Tyler, Texas 75701
(903) 509-2030

Clay Thompson-Market President
Bank Texas
2092 Three Lakes Parkway
Tyler, Texas 75703
(903) 589-8733 or (903)-312-3454

Chip Clark, Director
Facilities, Planning and Operations
The University of Texas at Tyler
3900 University Boulevard
Tyler, Texas 75799
(903) 566-7431

Bill Hommel, President
William S. Hommel, PC
1347 Dominion Plaza
Tyler, Texas 75703
(903) 596-7100

Warren Simmons, President
Simmons & Associates
100 Independence Place, Ste 200
Tyler, Texas 75703
(903) 581-5858

Don Winn, PE, Director of Distribution Facilities
Lowe's Companies, Inc.
Highway 268 East, East Dock
North Wilkesboro, NC 28656
(336) 658-4000

Jim Wright, Agent
Thompson Hicks
3919 S. Broadway
Tyler, Texas 75701
(903) 581-7077

Don Simmons, President
Simmons Real Estate
100 Independence Place, Ste 200
Tyler, Texas 75703
(903) 581-5858

Mike Drain, President
D&D Properties
18119 Oak Forest Dr.
Flint, Texas 75762
(903) 571-5637

Appendix

Resumes

EDWARD L. SNODGRASS, P.E.

BACKGROUND

Prior to forming **Benchmark Design Group, LLC** (Benchmark), Mr. Snodgrass was an owner of Adams Consulting Engineers, Inc. (ACEI). He began his time with this firm in 1992 in the capacity of Project Manager. At the end of his career he was Sr. Vice President-Engineering in charge of the corporate office. He has an extremely strong background in State and Municipal work. Prior to joining ACEI Mr. Snodgrass worked for the Texas Department of Transportation (TxDOT) as an engineer with the Greenville, Texas Area Engineer's office. His primary function at this position was a design engineer. He later moved from this position to become an engineer with the City of Tyler Engineering Department. While with the City of Tyler, his primary function, other than the design of public works projects, was the administration of all Capital Improvements Projects (CIP) contracts during construction which were bid through the City.

He has been a Project Manager in charge of a variety of Civil Engineering projects. He has also been responsible for numerous hydraulic issues which needed direct design or a registered engineer's opinion. Throughout his career, Mr. Snodgrass has been a key member in the planning, design and construction process of numerous high profile projects in both the private and public sectors. He has attended numerous continuing education courses; most notably: Wetlands and 404 Permitting – 1998 and 2004 (Dallas, TX and Cincinnati, OH), Urban Stormwater Management Workshop (Tampa, FL. and Nashville, TN.), Industrial Pretreatment (Houston, TX.), HEC-2 school (Austin, TX.), Underground Detention Design for Stormwater Management (Dallas, TX) and Project Designer Accreditation Training (Tyler, TX) as required by AHERA 40 CFR 763.

PROJECT EXPERIENCE

- Design of six bridges and bridge size culverts on numerous F.M. roads throughout Hunt County while at TxDOT.
- Residential, collector and arterial streets design, with all associated hydrologic and hydraulic analysis and design.
- Pounds Field Airport: Repairing and/or overlaying every runway and taxiway, design entrance road, and parking lot improvements.
- Contract Administration of Capital Improvement Projects.
- Supervision of Survey Field Crew and Construction Inspectors.
- Numerous commercial development sites.
- Wastewater treatment plants for Smith County WCID No. 1.
- Sanitary sewer lift stations.
- Hydraulic and Hydrologic studies as well as detention pond designs.

- Computer modeling (HEC-1, HEC-2, THYSYS, HY-8, HYDRAIN, TR-55, POND2, etc.).
- Wastewater permits.
- Stormwater Pollution Prevention Plan (SWPPP) preparation.
- Construction management.
- Subdivision designs (including cost analysis, land planning and coordination with owner & contractor(s), paving design, utilities, etc.).
- Project feasibility studies.
- East Texas Medical Center, West Campus, 8-story building and parking garage complex.
- East Texas Medical Center Hospital Facilities, Tyler, Athens, Jacksonville, Crockett, Pittsburg, etc..
- Mother Frances Hospital, Tyler, Orneles Tower.
- Trinity Mother Frances Hospital Facilities, Tyler, Athens, Jacksonville.
- Kilgore Economic Development Council, complete civil design, park master planning.
- Patriot Place Subdivision; Tyler, Texas.
- Lowe's Home Improvement Warehouse; multiple locations, complete civil design packages.
- Lowe's Distribution Centers; various locations, complete civil design packages.
- Lindsey Park; Tyler, Texas.
- Broadway Crossing Shopping Center; Tyler, Texas.
- U. S. 79 Utilities relocation; Jacksonville, Texas.
- Hollywood Theaters; Tyler, Texas.
- Projects at U.T. Tyler including: Engineering, Science and Technology Building, Braithewaite Nursing Building, and Cowen Center Parking Lot.

EDUCATION

Bachelor of Science, Texas A & M University, 1987

REGISTRATION

Registered Professional Engineer, Texas No. 72447
Registered Environmental Professional, Texas No. 585

MEMBERSHIPS

Member of American Public Works Association
Member of American Society of Civil Engineers
Member of Texas Society of Professional Engineers

ADDITIONAL REGISTRATIONS

Registered Professional Engineer in the States of:

Arkansas

Arizona

Colorado

Kansas

Louisiana

Oklahoma

Ohio

Nebraska

New Mexico

Nevada

North Carolina

South Carolina

Tennessee

Texas

Utah

Virginia

JOHN G. MITCHELL, P.E.

BACKGROUND

Mr. Mitchell joined Benchmark Design Group (Benchmark) in February 2004 as a Project Manager. Currently he is the lead design engineer on a variety of civil and municipal projects.

Prior to joining Benchmark, Mr. Mitchell worked for Adams Consulting Engineers, Inc. (ACEI) as a Design Engineer. His experience at ACEI includes a variety of projects from schematic layouts to final civil construction drawings and specifications with a focus on roadway and stormwater design.

Mr. Mitchell's past experience also includes working 2 ½ years for Baskerville-Donovan, Inc. (BDI) in Tallahassee, Florida. While working for BDI, he worked on numerous roadway projects, focusing on the design of stormwater conveyance systems and stormwater management facilities. The projects include work for the Florida Department of Transportation and various municipalities.

PROJECT EXPERIENCE

- Numerous commercial development sites
- Hydraulic and Hydrologic studies
- Detention pond designs
- Computer modeling (TR-55, PONDPACK, Hydraflow's Hydrographs, Hydraflow's Storm Sewers, etc.)
- Subdivision designs (including cost analysis, land planning and coordination with owner & contractor(s), paving design, utilities, etc.)
- Project feasibility studies

EDUCATION

Bachelor of Science, Auburn University, 1999

REGISTRATION

Registered Professional Engineer, Texas No. 92699

MEMBERSHIPS

Texas Society of Professional Engineers

MARVIN G. SNODGRASS

BACKGROUND

Mr. Snodgrass has an extensive background in the engineering, construction, and customer service industry. Prior to joining **Benchmark Design Group, LLC** (Benchmark), he served in the United States Air Force and worked at Tyler Pipe as a construction electrician. He then spent 27 years with T. U. Electric in Gainesville, Sulphur Springs, Mesquite and Paris, Texas as District Engineer and Customer Service Manager in charge of engineering and marketing. Subsequently, he obtained his real estate license and sold over 5 million dollars worth of commercial and residential real estate in the East Texas area for Coldwell Banker United Real Estate (formerly Pirtle Real Estate).

His expertise in the engineering, development and construction fields gave him the experience to develop residential subdivisions, and build and/or remodel a number of residential houses.

As Construction Manager, he demands organization, attention to detail, an ability to see the "big picture," and an understanding of all facets of the construction process. He is the intermediary between our clients, the design team, and any regulatory personnel. The wide range of responsibilities that he faces means that he has a wide variety of skills and knowledge, standard construction techniques, blueprint reading, budgeting, and purchasing.

Typical construction administration activities that he performs includes site observations, coordinating with contractors, bid administration, answering requests for information (RFI's) and reviewing monthly pay requests. Additionally he will provide random observation of water and sewer utilities construction, provide random observation of curb/gutter, paving, and drainage features, provide contract administration with Client and contractors, and coordinate with contractor to provide "as-built" drawings.

EDUCATION

Associate Degree in Engineering, Tyler Junior College
International Correspondence School in Electrical Engineering
Various management and construction seminars with T. U. Electric
Various realtor classes while active as a Realtor

MEMBERSHIPS / AFFILIATIONS

Deacon of Flint Baptist Church
Rotary
Kiwanis Club
Bullard Chamber of Commerce