



**DBM Contractors, Inc.**  
Donald B. Murphy Contractors, Inc.  
*60 Years of Innovation and Customer Satisfaction*

# DBM Contractors, Inc.

## Design/Build for cost-effective specialty geotechnical construction

**DBM Contractors, Inc.**, is an industry leader in heavy civil and specialty geotechnical construction. Since 1949 we have earned a reputation for performing difficult and diverse design/build projects on highway systems, as well as commercial and industrial projects throughout the western United States, including Alaska and Hawaii. Our diversity allows us to work on projects of every imaginable size and scope for both public agency and private enterprise.

We attribute our success to working as a team with our project partners and clients. In addition, we equip our personnel with leading edge construction technology and tools.

*To appreciate the breadth of our experience and ingenuity, we invite you to look inside.*

Our engineers continually apply new technologies and specialty methods that provide ground breaking solutions to meet or exceed our clients' requirements and expectations.

Our work encompasses a broad range of general, heavy and drilling construction including:

- Pre-design/Pre-construction Consultation and Planning
- Construction Budgets
- Detailed Estimates
- Technical Proposals
- Design/Build Services
- Earth Retention
- Excavation Support
- Foundation Support
- Slope Stabilization
- Dewatering
- Well Points
- Ejector Systems
- Vacuum Wells
- Vacuum Pumping/Sumping
- Deep Wells
- Vertical Gravel/Sand Drains
- Horizontal Drains/Hydraugers
- Seismic Retrofit
- Underpinning
- Structural Rehabilitation
- Micropiles
- Drilled Shafts
- Soil Nailing and Ground Anchors
- Dam Anchors
- Soil and Rock Grouting
- CFA Piling
- Slurry Walls
- Cutoff Walls
- Soil Mixing
- Ground Improvement
- Vibro Stone Columns (VSC)
- Vibro Concrete Columns (VCC)
- Rapid Impact Compaction (RIC)
- Vibro Densification
- Dynamic Compaction

As we at DBM move forward through the 21st century developing new construction methods and cost-saving technologies, we continue to uphold the same high standards established decades ago for proven performance and excellence.



**DBM Contractors, Inc.**

Design/Build

Earth Retention

Foundation Support

Slope Stabilization

Ground Improvement

Dewatering

# Design/Build

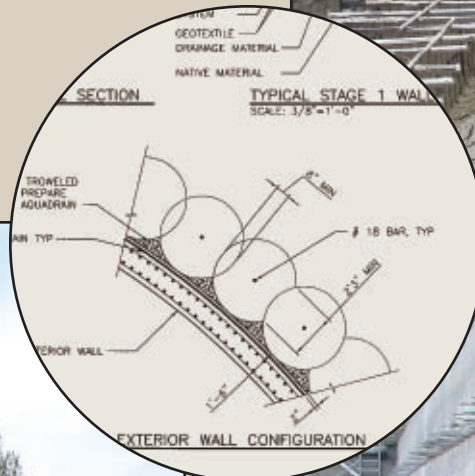
## Value added at every stage of the project

In the constantly evolving market place of specialty geotechnical design and construction, we at DBM recognize the importance and promote the implementation of design/build solutions. Our mission is to stay in the forefront of new design, emerging technologies in equipment and construction methods, and effective commercial arrangements with our clients. By continuously educating ourselves in these areas, we can deliver innovative and cost effective solutions to complex projects.

We believe the best approach to complex engineering and construction applications is to review all possible data, consider all the options and incorporate the experience and expertise of all team members to develop the most cost-effective solution. Whether we are collaborating with our clients' appointed design and construction team, or utilizing our in-house engineers, we blend our technically proficient design engineering staff and long tenured construction professionals to deliver successful and efficient projects. This integration between design and construction provides a two fold benefit for our clients in constructability and economic feasibility.

In addition to formal design/build procurement applications, we provide many other pre-construction services to our prospective clients including:

- Preliminary design development and review
- Specification development and review
- Constructability review
- Preconstruction estimating and budgeting
- Geotechnical load testing



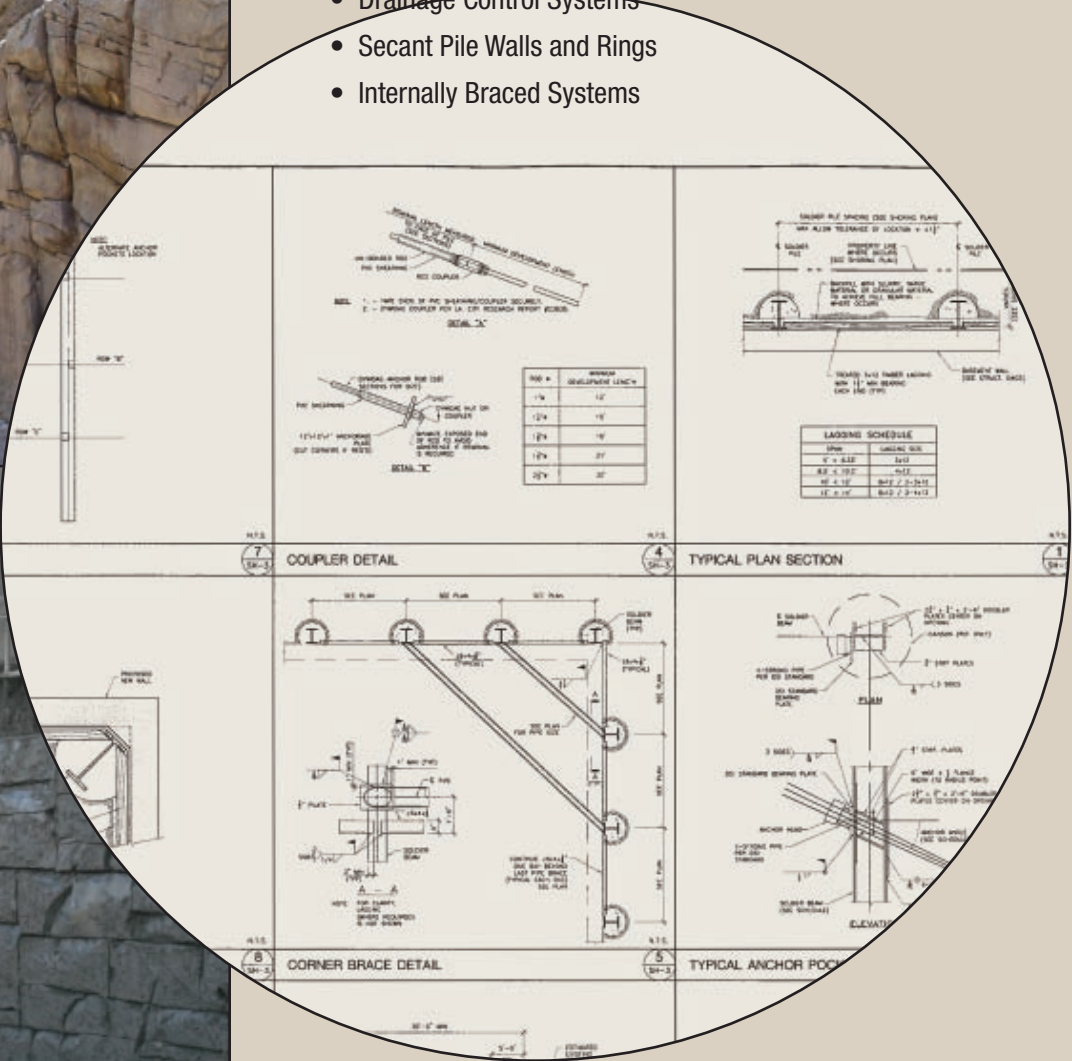
# Earth Retention

## Cost-saving technologies providing lasting solutions

We give our clients the best value engineering by applying the latest technology and considering both constructability and cost. As a primary designer and builder of temporary and permanent earth retention systems, at DBM we are constantly applying new and advanced techniques as well as designing and manufacturing custom drilling equipment when conventional equipment use is impractical.

Earth Retention services and capabilities include:

- Soldier Pile and Lagging Systems
- Rock and Soil Tieback Anchors
- Soil Nailing
- Piling Systems
- Micropile Stabilization
- Structural and Architectural Shotcrete
- Slurry Diaphragm Walls
- Underpinning
- Soil Mixing
- Drainage Control Systems
- Secant Pile Walls and Rings
- Internally Braced Systems



# Consistently providing ground reinforcement and strengthening

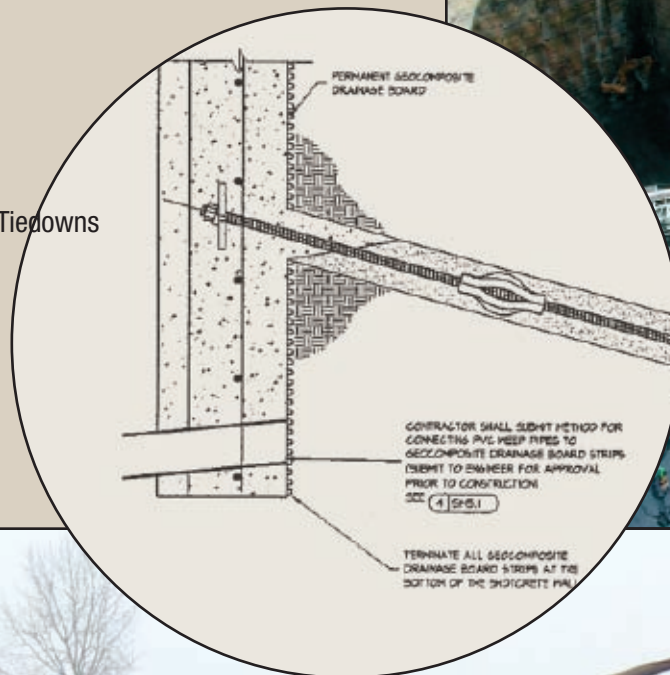
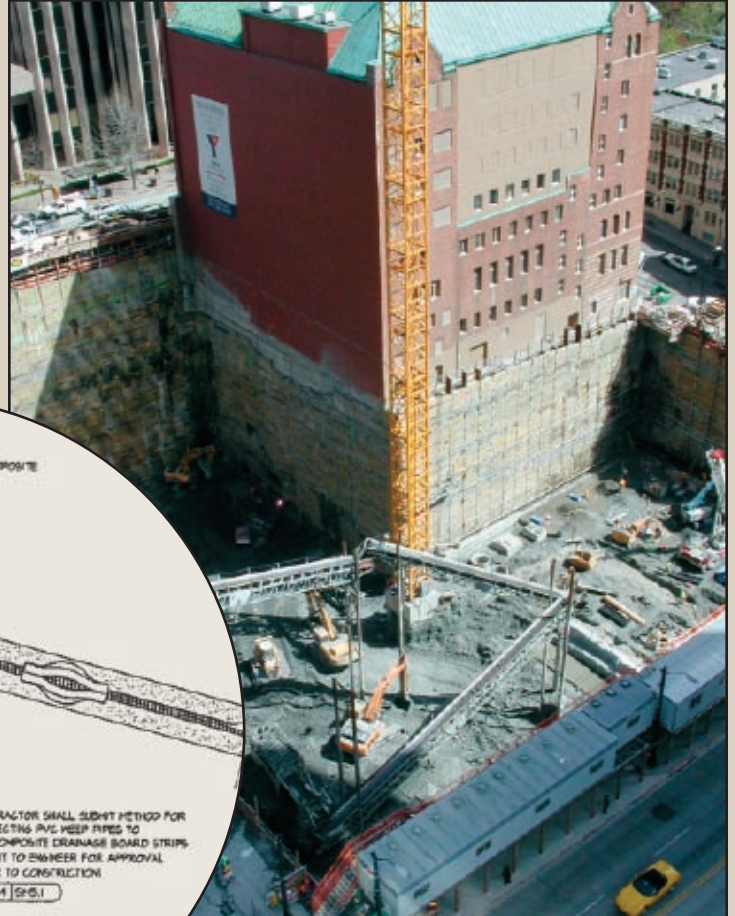
DBM is a recognized industry leader in developing and implementing soil nail and ground anchor technology.

Soil nailing is a cost effective method of providing earth retention structures for support of deep excavations, slopes, bridge abutments and roadways. Soil nails are primarily used to reinforce and strengthen the existing ground by installing closely spaced steel bars secured by grouting. This technique creates a composite reinforced soil mass stable enough to retain the ground on a temporary or permanent basis.

Ground anchors differ from soil nails in that they are post-tensioned structural elements, installed and pressure grouted in soil and rock to transmit an applied tensile load into the ground. Typical applications include anchored earth retention to stabilize excavations and slopes, resisting vertical uplift forces generated by hydrostatic, seismic and overturning forces. Commonly used in both temporary and permanent applications, ground anchors can provide significant cost savings over more conventional mass concrete structure alternatives.

The DBM team's vast experience in design/build soil nailed and anchored earth structures has resulted in the successful construction of hundreds of specialty geotechnical projects including:

- Earth Retention
- Excavation Support
- Slope Stabilization
- Dam Anchorage
- Bridge/Equipment/Building Tie-downs

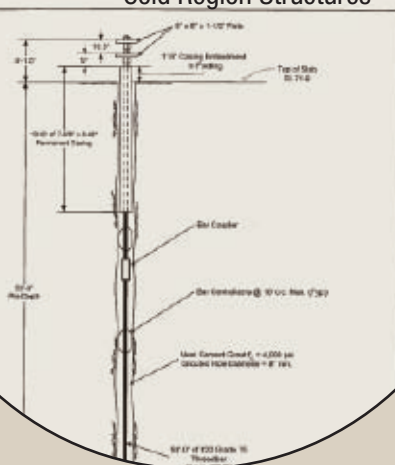


# Foundation Support

## Knowledge and innovation in any terrain and geology

Whether your critical application is deep or shallow foundation support, the DBM team has the expertise and equipment to provide cost-effective, high-capacity deep foundation systems in a variety of subsurface conditions with differing geometries and terrain. Drilled shaft services include:

- Bridge/Building Foundation Support
- Earth Retention
- Elevator Shafts
- Power Line Foundations
- Telecommunication Foundations
- Tunnel Access Shafts
- Methane Recovery Wells
- Leachate Collection Wells
- Drainage Control Systems
- Cold Region Structures



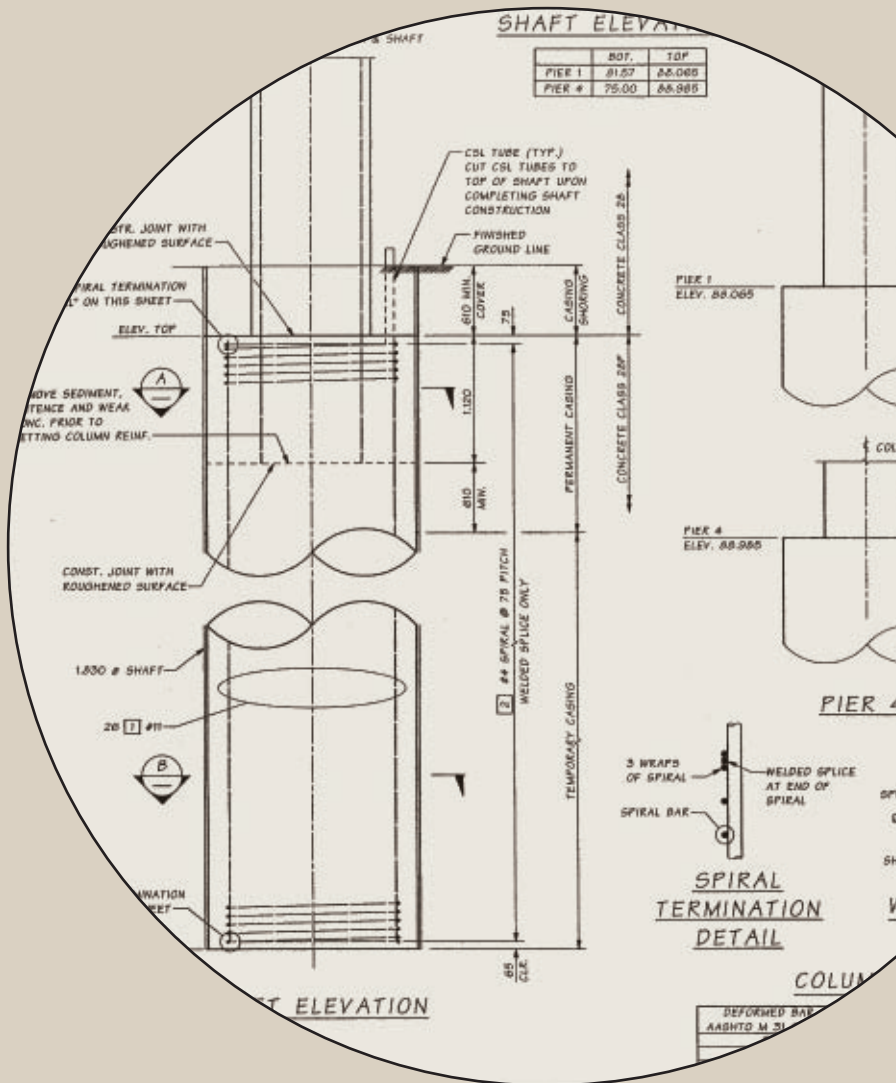
## Experience, equipment, and technology

DBM team members offer extensive research, design, and field experience in developing and implementing micropile technology in several areas of construction. Depending on structure requirements and geology, micropiles can provide the most effective structural support solution. Despite their advanced design, micropiles are installed with conventional materials and construction techniques. This often results in cost and time saving solutions for:

- Bridge/Building Foundation Support
- Seismic Retrofit
- Structure Rehabilitation
- Slope Stabilization
- Earth Retention
- Equipment Support
- Ground Improvement



**DBM Contractors, Inc.**



Foundation Support

### Ingenuity at minus 60° F.

DBM maintains a long-standing, solid reputation as innovators of foundation support systems on the North Slope in Alaska. Our equipment is specifically designed and winterized for operation under the most grueling cold region conditions.



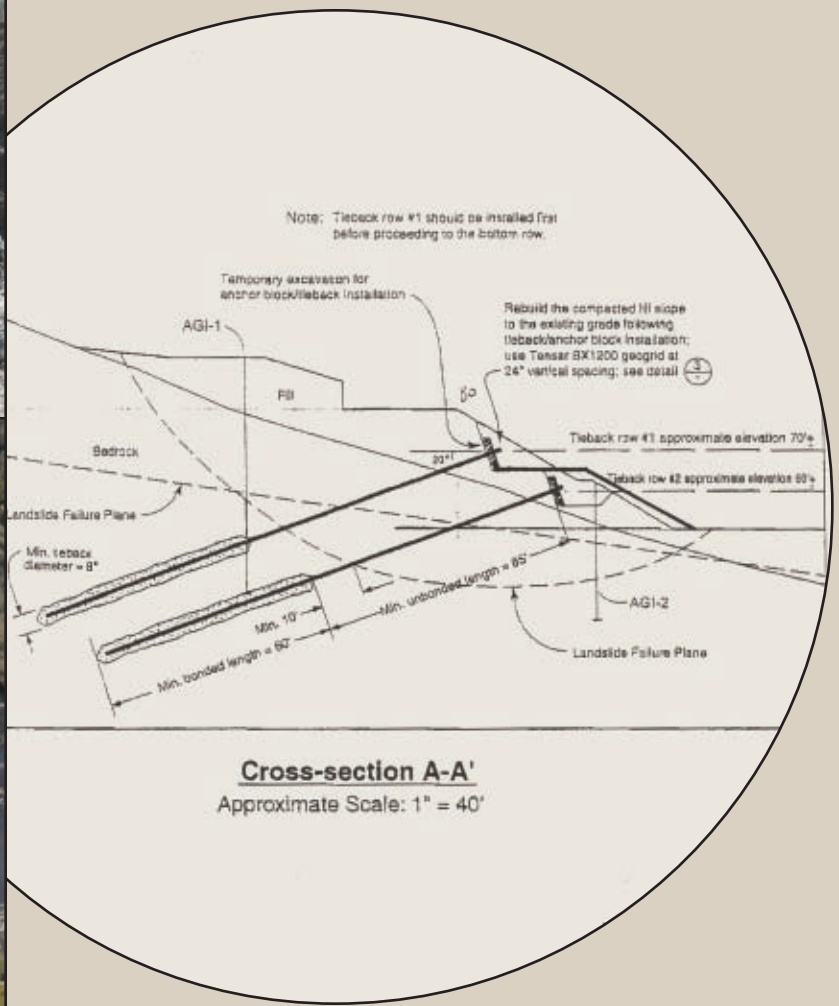
# Slope Stabilization

## Innovative solutions to challenging slope stability conditions

Slope stabilization poses some of the most complicated design and construction challenges in our industry. Our knowledge of geological conditions and sensitivity to the environment allows us to specialize in difficult stabilization installations, such as unpredictable excavation support, unusual terrain, and infrastructure interference in either rural or urban settings.

In addition to quick response to our clients' needs, DBM offers technical skill and construction experience in:

- Rock and Soil Tieback Anchors
- Soil Nailing
- Micropile Stabilization
- Drilled Shafts
- Structural and Architectural Shotcrete
- Soldier Pile and Lagging Systems
- Ground Improvement
- Rock Bolting





# Ground Improvement

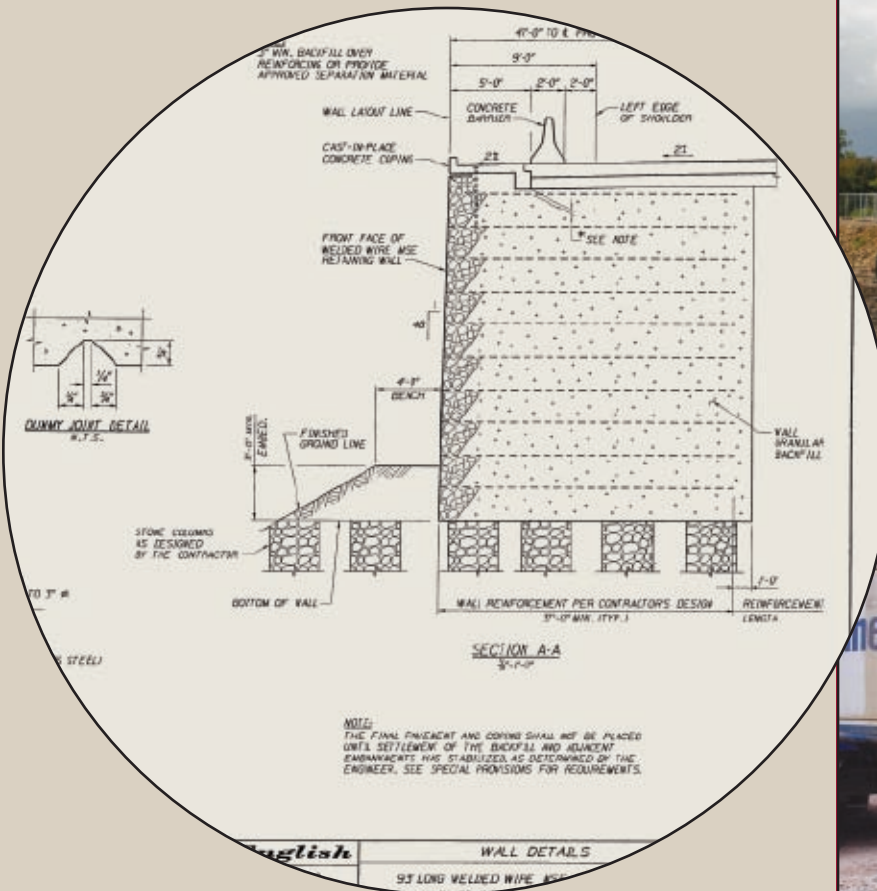
## Sometimes less, actually is more

Ground improvement, in lieu of structural support, is often a viable option when the existing ground conditions are less than adequate to perform their role in foundation support or lateral stability situations. Often times in geotechnical construction, ground improvement can elevate the site soil conditions to a level that will perform satisfactorily for the engineering requirements of conventional foundations of the proposed structure.

In many instances, ground improvement techniques and geotechnical structures are complementary solutions and are integrated into a single foundation or lateral support application. At DBM, we have the experience and technical breadth to evaluate site soil conditions, design innovative and cost mitigating solutions, and provide timely and superior construction benefiting our clients.

We offer the following ground improvement products and techniques:

- Micropiles
- Displacement Piles
- Vibro Stone Columns (VSC)
- Compaction Grouting
- Consolidation Grouting
- Vibro Concrete Columns (VCC)
- Vibro Densification
- Rapid Impact Compaction (RIC)
- Dynamic Compaction



# Dewatering

## Improving sites for ease of construction and overall performance

Using our many years of ground engineering and construction experience we now provide our clients full-service temporary construction and permanent site dewatering. DBM's managers, engineers, technicians and field personnel combine their technical knowledge and experience to solve any dewatering problems encountered by its clients.

Dewatering services include thorough site evaluation, system installation and operation to facilitate safe construction and ground stabilization. When evaluating a site our dewatering personnel study and evaluate the following factors:

- Geotechnical investigation report
- Grain size analysis and permeability tests
- Stratification and permeability of the ground
- Area hydrology
- Topography
- Space limitations of the site and surrounding structures
- Projected method of excavation and excavation support (if any)
- Proposed structure type
- Construction schedule

Expert DBM teams engineer dewatering/ground stabilization configurations using the following techniques and systems:

- Well Points
- Ejector Systems
- Vacuum Wells
- Vacuum Pumping/Sumping
- Deep Wells
- Vertical Gravel/Sand Drains
- Horizontal Drains/Hydraugers

We fabricate our own dewatering equipment. Well point and hydrauger systems are made of heavy grade PVC with quick coupling assemblies. Deep well and ejector well systems are custom designed and fabricated for each particular project.

## Construction Supervision and System Maintenance

A properly functioning dewatering system is far more than the sum of its component parts. Incorrectly assembled, inadequately maintained or improperly installed systems are very expensive and may produce catastrophic results. As a complement to its high quality equipment and site evaluation services, experienced DBM dewatering field technicians are available to install, operate and maintain the correct system for your project.



**DBM Contractors, Inc.**

# Proven Safety Record

## Safety First

At DBM we take safety and the health and well-being of our employees and project partners very seriously. Safety on the job sites, in the office and everywhere in between, is an integral part of everyone's daily routine.

It is our experience that safety is an essential part of the company's culture and a reflection of our overall willingness to think globally and act locally.

It is far more than wearing a hard hat, safety glasses and a vest. Safety is developed and promoted as a company wide policy in accordance with Federal and State OSHA regulations, implemented through proper staff and subcontractor training and monitored to ensure safety compliance and the well-being of every DBM employee and person associated with our work.

At DBM, safety is our first priority!

## Mission Statement

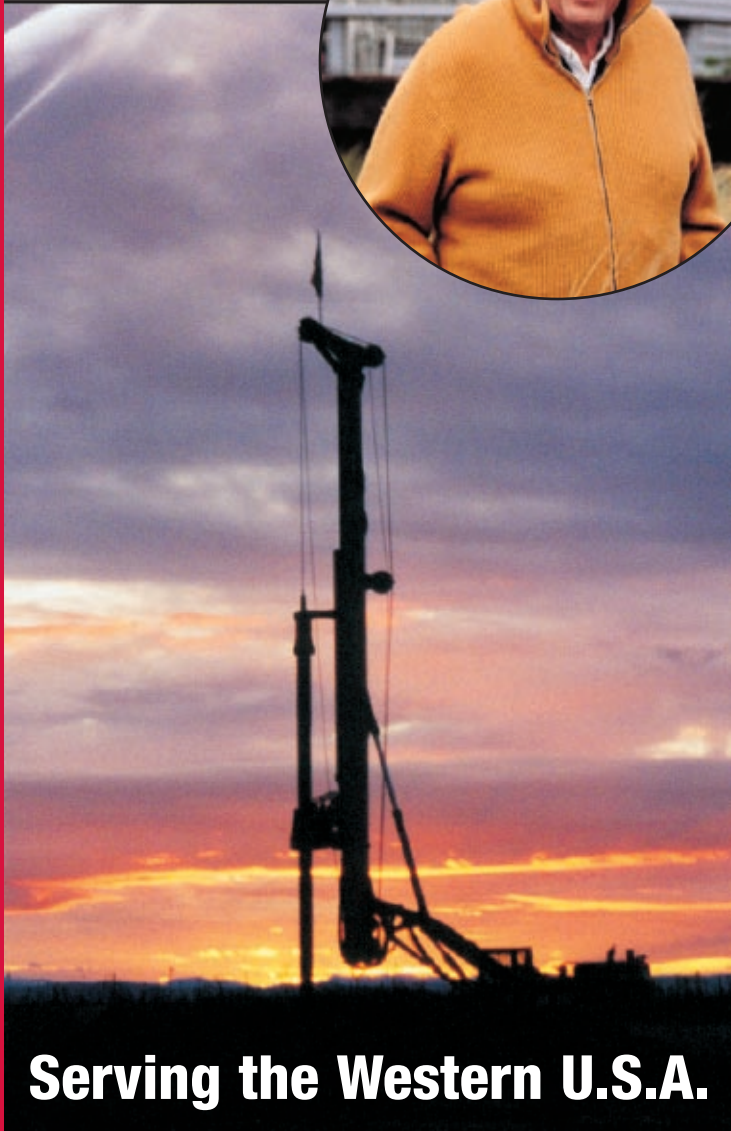
As an accountable specialty construction company, working with our partners in a team environment, it is the mission of DBM Contractors, Inc. to lead our industry in service, innovation, safety, equal opportunity, and quality of workmanship and to enhance profits with and for the project partners, while always maintaining our integrity. Our employees will be provided with opportunities to improve their quality of life for now and into the future.



**Vision:**

*DBM Contractors, Inc. will be the most respected specialty contractor in the western United States offering our clients cost effective, diverse, and high quality products while maintaining satisfactory and steady profit.*

**Donald B. Murphy,**  
**Founder 1920-1997**



**Serving the Western U.S.A.**

**DBM Contractors, Inc.**

Donald B. Murphy Contractors, Inc.

**1-800-562-8460 • www.dbmcontractors.com**

Headquarters: 1220 S. 356th St., Federal Way, WA 98003 • 253.838.1402

Northern California Regional Office: 1850 South 7th Street, San Jose, CA 95112 • 408.885.0620

Southern California Regional Office: 634 Rock Springs Road, Escondido, CA 92025 • 760.233.5888

# Quality Assurance

## Innovative solutions and client satisfaction

For more than 60 years, we have provided clients with a superior level of construction services and products. Our design/build specialty construction capabilities have made us an integral part of the development team on numerous challenging projects located throughout North America. These projects have included working as the primary designer and builder, over land and water, on temporary or permanent structures, in any terrain or geology.

Our track record demonstrates that we can handle any size project or system for highway, commercial and industrial construction applications.

DBM engineers and project specialists constantly apply new technologies and methods to deliver technically and economically feasible solutions. For jobs requiring expertise, innovation, and solutions beyond the ordinary, we pride ourselves on a carefully established industry-leading reputation, and plan to continue doing so for years to come.

**Contractor's Licenses:**

Alaska	A11875	Montana	45788
Arizona	ROC187641	Nevada	56788
California	A462599	Oregon	64695
Colorado	Reg. 20031331814	Utah	4996804-5501
Hawaii	CT-14938	Washington	DONALI*331RQ
Idaho	11346-AAA-1-2	Wyoming	Reg. CID200300456099

**Professional Memberships**



*DBM Contractors, Inc. is an Equal Opportunity Employer*

