

# STATEMENT OF QUALIFICATIONS



FMG, Inc.

**PROFESSIONAL CONSULTING ENGINEERS**

**Civil – Geotechnical – Surveying – Testing – Environmental**

FMG, Inc.

3700 Sturgis Road  
Rapid City, SD 57702

605-342-4105  
[www.fmgengineering.com](http://www.fmgengineering.com)



## ...TO THE READER

This document presents a general overview of the qualifications and experience of FMG Inc. FMG offers a full compliment of engineering, surveying and testing services. Our staff is comprised of professional engineers, scientists, and technicians with extensive and varied experience. We would welcome the opportunity to discuss your project plans.

Included is an abbreviated listing of the project types and specific capabilities that provide a generalized scope of the services provided by the firm. We also maintain a working relationship with several additional consultants to provide a broader scope of services and allow our clients to enjoy the benefits of one primary project consultant.

If we could be of any assistance in your project plans, please contact any of the individuals listed below.

Allen Foster, P.E. - Civil Engineering/Surveying  
Jerry Foster, P.E. - Civil Engineering/Surveying  
Rick Baker, P.E. -Geotechnical and Environmental Services & Managing Partner  
Jim Trudeau, B.S.-Construction Observation, Materials Testing, Construction  
QC Alex Fisher, P.E., G.E. - Geotechnical Engineering

Any of these individuals can be reached as follows:

**FMG, Inc.**  
3700 Sturgis Road  
Rapid City, SD 57702

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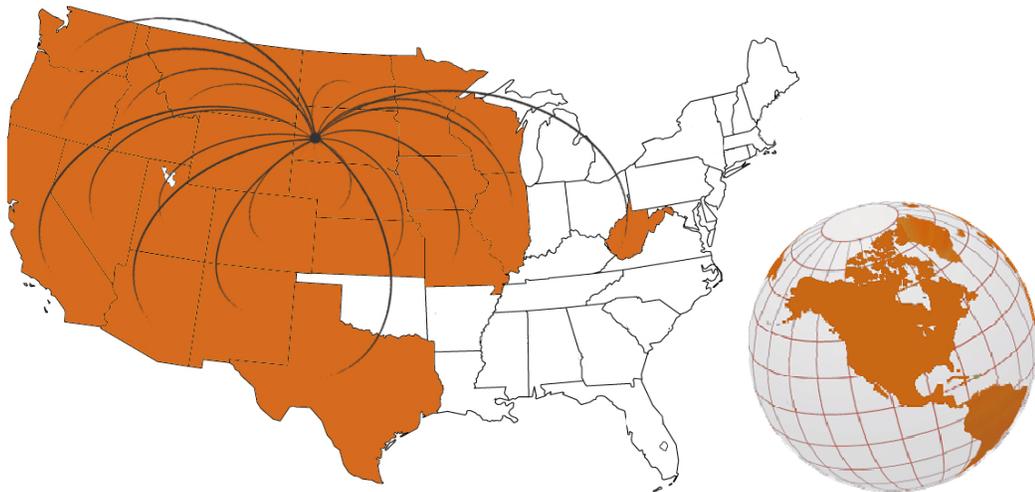
## 1. CORPORATE INTRODUCTION

FMG Inc. is a multi-discipline professional services firm located in Rapid City, SD. The company employs approximately 20 individuals of various technical and professional backgrounds. FMG's roots can literally be traced to the turn of the twentieth century when it began providing surveys for mining claims in the Black Hills of South Dakota. Through the years of ownership succession, it has evolved into a multi-discipline full service engineering company offering professional services throughout the western US and internationally.

The primary services offered include Civil Engineering and Geotechnical/Environmental Services. These activities are supported by in-house surveying, materials testing, and drilling capabilities.

Typical client types include commercial and industrial business developers, contractors, government institutions, public and private utilities, and natural resource companies. FMG frequently provides technical services to other engineering and architectural services companies.

Our geographic service area is essentially unlimited, but historically has been throughout the upper Mid-West and Western United States. FMG has also had the opportunity to work internationally in Mexico, Japan, Ireland, Indonesia, Guyana, Costa Rica and Nicaragua.



The multi-discipline activities of FMG provide a significant advantage in project development from inception through final construction. An integrated approach of site planning, environmental concerns, geotechnical analysis, civil design, and construction services enhances successful and cost effective project development.

## **2. PROFILE OF PROFESSIONAL SERVICES**

### **2.1 CIVIL ENGINEERING**

FMG provides civil engineering services as it relates to a wide variety of project developments. FMG can provide complete services from the initial data acquisition site surveys with total station data collectors, through final design integrated into AutoCAD mapping and design systems. Detailed design is further enhanced utilizing AutoCAD Civil 3D. The system flexibility allows integration with architectural design systems, and other leading engineering applications. Water system modeling is completed using Water-Cad software.

Specific civil engineering services provided by FMG include the following:

- Site Planning, Analysis and Design
- Street and Roadway Design
- Water System Design
- Drainage Evaluation and Design
- Bridge and Box Culvert Design
- Storm and Sanitary Utility System Design
- Stormwater Runoff Analysis
- Flood Control and Floodplains
- Site Grading & Earthwork
- Mining System Design
- Industrial Process Design
- Environmental Design



Highway 473 Relocation, Lead, SD

### **2.2 GEOTECHNICAL ENGINEERING**

Geotechnical services are provided for a multitude of projects both in support of our internal civil engineering projects, and external consulting services. Our work is complimented by providing drilling services and a complete materials testing laboratory in-house.

Specific geotechnical engineering services provided by FMG include the following:

- Building/Structure Foundation Evaluation
- Groundwater Analysis
- Earth Structure Design and Analysis
- Geologic Hazard Analysis
- Geologic Resource Evaluations - Drilling - Coring
- Soil Resistivity Surveys
- Mining Process Design
- Environmental Design



Aragonne Mesa, New Mexico

### **2.3 ENVIRONMENTAL SERVICES**

FMG provides environmental services in response to regulatory requirements governing a diverse range of business entities and activities. Our capabilities and experience in technical personnel, drilling and monitoring equipment, and regulatory knowledge allow us to provide competent efficient service.

Specific environmental services provided by FMG include the following:

- Phase 1 Environmental Site Assessments (Pre-Acquisition Site Assessments)
- Phase 2 Environmental Site Assessments
- Phase 3 Environmental Site Assessments
- Spill Prevention, Control and Countermeasure (SPCC) Plans
- Groundwater & Soil Characterizations
- Wetlands Identification and Permitting
- NPDES Storm Water Plans and Permits
- Water Rights Acquisition
- Monitor Well Installations
- Organic Vapor Surveys
- Environmental Management
- Baseline Studies
- Remedial Action Plans
- Landfill Design
- Industrial Process Design
- Permitting Support



Custer-Fall River Regional Landfill, Edgemont, SD

### **2.4 SURVEYING/MAPPING**

FMG provides surveying & mapping services in direct support of the other primary services offered by the firm. Through the direct management and integration of the data into our design systems, there is an increased efficiency and level of technical proficiency not realized by “outsourcing”. FMG utilizes electronic total stations and data collectors which feed directly into our computerized mapping system. FMG provides surveying and mapping to a diverse clientele.

Specific surveying and mapping services provided by FMG include the following:

- Topographic & Detailed Mapping
- Lot Splits, Planning, and Platting
- Land Planning, Streets, Highways
- Mining Surveys, Volumetrics
- Construction Staking



## **2.5 MATERIALS TESTING/CONSTRUCTION QUALITY CONTROL**

FMG maintains a complete materials testing laboratory in-house. The laboratory services support the testing requirements of geologic materials obtained during our drilling operations for geotechnical and geologic assessments. In addition the laboratory services support our work for construction materials and quality assurance activities in the construction industry. Field quality control operations are supported by several technicians and equipment including nuclear density gauges, and concrete and asphalt testing apparatus.

Specific materials testing and construction quality control services provided by FMG include the following:

- Soils/Geologic Materials Properties Analysis
- Aggregate Properties Analysis
- Asphalt Materials Testing & Mix Designs
- Concrete Materials Testing & Mix Designs
- Concrete Cylinder Compression Tests and Flex Beams
- Statistical Analysis of Concrete Testing Data
- Field Testing of Sprayed Fire-Resistive Materials
- Field Soil/Rock Fill Compaction Testing
- Field Concrete Testing
- Concrete Core Sampling
- Field Masonry Testing
- Field Asphalt Testing
- Construction Observation & Documentation



San Jacinta Geothermal Power Plant, Nicaragua



SD National Guard Joint Forces HQ — Camp Rapid, Rapid City, SD

### **3 REPRESENTATIVE PROJECTS 2008–2012**

Year*	Project Name and Location	Water and Sewer	Streets	Parking	Drainage	Commercial Development	Residential Development	Master Plan/Planning	Land Survey	Geotechnical	Materials Testing	Environmental	Other	Client
2008	Health Concepts Rapid City, SD	X	X	X	X	X		X						RLB, LLC
2008	Good Samaritans - St. Martins Project Rapid City, SD	X	X	X	X	X		X	X					Good Samaritans, Inc.
2008	Western Area Power Admin - Substations North & South Dakota								X					High Energy, Inc.
2008	Wyodak - Phase 1 ESA Gillette, WY										X			Wyodak Resources
2008	Canyon Lake Dam Rapid City, SD							X	X					Stanley Consultants
2009	Jackson Springs WTP Rapid City, SD								X					Burns & McDonnell Eng. Co.
2009	Black Hills State University Science Bldg Spearfish, SD	X		X	X			X	X	X				Office of State Engineer
2009	Vicki Powers Park Rapid City, SD	X						X	X					Wyss Associates, Inc.
2009	Omaha Street Storm Water Quality Rapid City, SD				X			X	X					Designworks, Inc.
2009	Elm Avenue Reconstruction Phase 3 Rapid City, SD	X	X		X			X	X	X				City of Rapid City
2008	Western Area Power Admin - Substations North & South Dakota								X					High Energy, Inc.
2008	Wyodak - Phase 1 ESA Gillette, WY										X			Wyodak Resources
2008	Canyon Lake Dam Rapid City, SD							X	X					Stanley Consultants
2009	Jackson Springs WTP Rapid City, SD								X					Burns & McDonnell Eng. Co.
2009	Black Hills State University Science Bldg Spearfish, SD	X		X	X			X	X	X				Office of State Engineer
2009	Vicki Powers Park Rapid City, SD	X						X	X					Wyss Associates, Inc.
2009	Omaha Street Storm Water Quality Rapid City, SD				X			X	X					Designworks, Inc.
2009	Elm Avenue Reconstruction Phase 3 Rapid City, SD	X	X		X			X	X	X				City of Rapid City
2010	Terra Sancta Project Rapid City, SD	X	X	X	X	X			X	X				Architecture International
2010	Jackson Boulevard Utilities Rapid City, SD	X			X			X	X					City of Rapid City

\*Indicates Year Project Contracted

### **3 REPRESENTATIVE PROJECTS 2008–2012**

Year*	Project Name and Location	Water and Sewer	Streets	Parking	Drainage	Commercial Development	Residential Development	Master Plan/Planning	Land Survey	Geotechnical	Materials Testing	Environmental	Other	Client
2010	Guyana Hydro Power Project Guyana, South America												X	Sandspring Resources
2010	Highway 473 Relocation Lead, SD		X		X			X	X	X				Wharf Resources (USA), Inc.
2010	Manzanita Wind Project San Diego County, CA								X					POWER Engineers
2010	West Chicago Area Water Main Rapid City, SD	X						X	X	X			X	City of Rapid City
2010	River Bluff Solar Project San Bernardino County, CA								X					Terra Gen Power, Inc.
2011	Custer-Fall River Landfill Groundwater Sampling (2008-2011)									X	X			Custer-Fall River Waste Management District
2011	North Pinedale Reservoir Rapid City, SD	X						X	X	X				City of Rapid City
2011	Dakota Drive Water Main Rapid City, SD	X	X					X	X					City of Rapid City
2011	Cambell Street Reinforced Box Culvert Rapid City, SD				X			X	X	X				City of Rapid City
2011	Aspen Grove Assisted Living Facility Sturgis, SD	X		X	X	X		X	X					PKHLS Architecture
2011	Toroparu Mine Road Reconstruction Guyana, South America		X				X		X					Sandspring Resources
2011	Butte Wind Farm Belle Fourche, SD								X					PNE Wind, Inc.
2011	Rush Creek Substation Rushville, NE								X	X				Northwest Public Power Distr.
2011	Spearfish Canyon Gravity Water Line Spearfish, SD	X						X	X	X				City of Spearfish
2012	Jackson Boulevard Utilities Rapid City, SD	X			X			X	X	X	X			City of Rapid City
2012	FedEx Facility Expansion Rapid City, SD					X		X	X	X				Ruedebusch Development
2012	Good Samaritans - Senior Living Facility Rapid City, SD	X	X	X	X	X		X	X	X				Good Samaritans, Inc.
2012	Mojave 230kV Trans Line & Substations Hinkley, CA								X					High Energy, Inc.
2012	EAFB Design and Repair Sewer Systems Rapid City, SD	X						X						Department of the Air Force

\*Indicates Year Project Contracted

#### **4. PROFESSIONAL AND TECHNICAL STAFF**

FMG provides personnel and management services at many levels for your project needs. Our experienced staff of registered professional engineers and scientists includes;

- Civil Engineers
- Geological Engineers
- Geologists
- Environmental Scientists
- Water Resource Engineers
- Registered Land Surveyors
- Certified Technicians and Surveyors
- Accounting and Administrative Support Staff

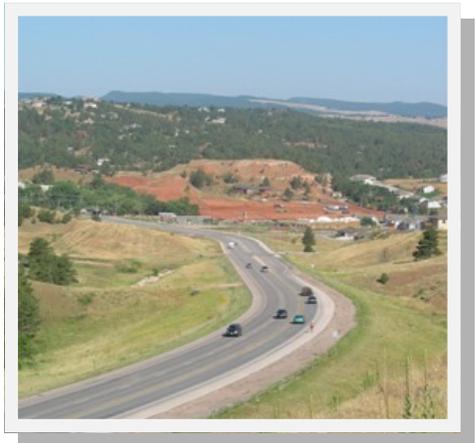
The services of FMG are divided into two major areas of Civil Engineering/Surveying and Geo-Environmental Services although significant overlap of duties and abilities occur, as we purposely tend to limit our internal hierarchy. We consider it important to allocate personnel to fit project needs rather than our own internal structures.

In addition to the many professional and technical registrations held by our staff, many additional hours of training have been completed in various areas including OSHA 40 hour training for potentially hazardous work sites

Our staff is well versed in the use of computerized technology for survey, design and analysis, and use several conventional packages as well as in-house programs. We have received various awards for Excellence in Design from the South Dakota Department of Transportation. The resume's of key professional and technical staff are presented individually on the following pages.



Toroparu Mine Road Reconstruction, Guyana, South America



Catron Boulevard, Rapid City, SD



POSITION IN FIRM:

Allen Foster is the President of FMG, Inc. In addition Mr. Foster is the manager of the Water and Wastewater and Surveying Divisions. Primary responsibilities include general management of all civil engineering activities, along with completion of studies, reports, project design and preparation of project plans and specifications.

EDUCATION & TRAINING:

B.S. Civil Engineering, 1966, South Dakota School of Mines and Technology  
Graduate Study, 1966-'67, South Dakota School of Mines and Technology

Various Federal, State and Private Short Courses and Seminars

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Registered Professional Engineer, State of SD

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Project Manager and Engineer for numerous civil engineering projects in the South Dakota area since 1967. Mr. Foster is experienced in the study and design of water, sanitary sewer, and storm drainage facilities, urban street and rural road design, site development, subdivision development and urban runoff design and analysis.

Representative project experience is listed below.

- Repair Drainage Areas, Phase 4, Ellsworth Air Force Base
- Meade Street/Elm Avenue Reconstruction, City of Rapid City
- Lyle Hare Athletic Field Renovations, Black Hills State University
- Computer Modeling/East Rapid System Expansion, City of Rapid City
- Computer Modeling/Portion of South Canyon High Level System, City of Rapid City
- Computer Modeling/Master Plan for Ellsworth Air Force Base water system
- Fall River Water Users District, Rural Water System
- Stoney Creek Apartment Complex, Belgarde Enterprises
- Various Street Reconstruction Projects at Ellsworth Air Force Base including
- Eaker Drive, Twining Street, Bergstrom Drive, Fuolois Street, MSA Roads
- Repair of Taxiway D West, Ellsworth Air Force Base
- Butte-Meade Sanitary Water District, Water Transmission Line Relocation
- Wildwood Drive Reconstruction, City of Rapid City
- Park Drive Reconstruction, City of Rapid City
- Waterloo Street Reconstruction, City of Rapid City
- Lemmon Avenue Reconstruction, City of Rapid City
- East Tallent Street Reconstruction, City of Rapid City
- McDonalds Restaurant Reconstruction, Cleveland Street, Rapid City
- Best Buy Store #861, Rapid City, SD
- Safeway Store #583, Spearfish, SD



POSITION IN FIRM:

Jerry Foster is the Vice-President of FMG, Inc. In addition Mr. Foster is the manager of the Transportation, Site Development, and Storm Water Management Division. He is responsible for managing a broad range of Civil Engineering projects. He has been with FMG since 1988.

EDUCATION & TRAINING:

B.S. Civil Engineering, 1977, South Dakota School of Mines and Technology  
Graduate Study, 1977-'78, South Dakota School of Mines and Technology

Numerous Federal, State, and Private Short Courses and Seminars

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

- Registered Professional Engineer, States of SD and WY
- SD Engineering Society, Black Hills Chapter, 1989 Young Engineer of the Year
- SD Engineering Society, Black Hills Chapter, President, 1991

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Jerry Foster has been involved in civil engineering projects in the region since 1977. Mr. Foster has a significant amount of training and experience in stormwater management, site development, environmental, and transportation related projects. He has experience in the municipal sector of civil engineering as he held various positions with the City of Rapid City, including City Engineer, prior to joining FMG.

Representative project experience is listed below.

- Joint STARC Readiness Center, Camp Rapid, SD Army National Gaurd
- Repair Drainage Areas-Phase 3, Ellsworth Air Force Base
- Canyon Lake Drive Reconstruction, SDDOT
- Catron Boulevard Improvements, City of Rapid City
- Kohl's Department Store, Rapid City
- Disk Drive Extension, City of Rapid City
- Road and Parking Improvements, Phases 1, 2, 3 and 4, Camp Rapid, SDANG
- Canyon Lake Drive Bridge Hydraulics, SDDOT
- Menard Store, Rapid City
- Various Drainage Basin Design Plans for City of Rapid City including South Canyon/Lime Creek, Arrowhead, Haines Avenue, Perrine, Meade/Hawthorne
- Dunham Estates, Rapid City
- Camp Rapid Drainage and Utility Master Plan, SDRANG
- Southwest Connector Road (Catron Boulevard), City of Rapid City



POSITION IN FIRM:

Mr. Baker is the Managing Partner of FMG Inc. In addition, Mr. Baker is the manager of the Geotechnical and Environmental Services Division. Twenty-five years of experience in geotechnical engineering and project management, site assessment and development, environmental evaluations, process design, and permitting. Registered Professional Engineer in SD, NE, ND, WY, CO, and WA.

EDUCATION & TRAINING:

B.S. in Geological Engineering, 1978, South Dakota School of Mines and Technology

Graduate Study 1979-'81, South Dakota School of Mines and Technology

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

- Registered Professional Civil Engineer/Chemical Engineer
- Licensed SD Well Driller
- SDSM&T Outstanding Recent Graduate Award in Geological Engineering
- BH Chapter of NSPE Young Engineer of the Year Award
- Previous Adjunct Professor - South Dakota School of Mines & Technology - Environmental Geology

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Project Engineer and Manager for numerous (500+) geotechnical and environmental assessments throughout the western US. Projects types include industrial energy sites, transmission and distribution, mining, commercial construction, and waste disposal.

- Wessington Springs, SD Babcock & Brown Wind Project
- Mitsubishi Geothermal Project, near Mexicali Mexico
- Wind Project Substation Stability Analysis, Ireland
- Geothermal Project, near Jakarta Indonesia
- San Juan Mesa Wind Project, Clovis, New Mexico
- Aragonne Mesa Wind Project, Santa Rosa, New Mexico
- Sundance Energy Project, Coolidge, Arizona
- Spence Substation, near Alcova WY
- Ciero Prieto Geothermal, Mexico
- Osage 230 Kv Substation, Osage, WY Black Hills Corporation
- Black Hills 69 Kv Transmission Line, SD, Black Hills Corporation
- Ben French Station Environmental Assessment, SD, Black Hills Corporation
- Kirk Power Plant, Black Hills Power & Light, SD, Black Hills Corporation
- New Underwood Substation, SD, Western Area Power Administration
- Beaver Creek Wind Project, Columbus, MT



POSITION IN FIRM:

James Trudeau is the Treasurer of FMG, Inc. In addition Mr. Trudeau is the manager of the Materials Laboratory and Construction Testing Divisions. Primary responsibilities include supervision and coordination of all materials testing, including field and laboratory control. He is also FMG's Radiation Safety Officer. Mr. Trudeau has 32 years experience in lab and field construction testing services including soils, concrete, hot-mix asphalt pavements, masonry construction, and installation of drilled piers and driven pile foundations.

EDUCATION & TRAINING:

B.S. Earth Science, 1974, University of South Dakota, Vermillion, South Dakota.  
Special Courses/Seminars for Portland Cement Concrete and Asphalt Cement Concrete

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

- 1997 Achievement Award, Dakota Chapter of the American Concrete Institute
- ASTM and ACI Member
- ACI Certified Concrete Field Technician, Grade Level I
- Certified Operator Troxler Nuclear Density Gauge & Troxler Radiation Officer Training

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Jim Trudeau is a geologist/senior materials specialist that has been involved in geotechnical and construction projects in the western United States since 1976. Has performed and supervised all phases of field inspection and quality control testing on numerous projects for the Federal Highway Administration, Federal Aviation Administration, Bureau of Indian Affairs, U.S. Forest Service, U.S. Air Force and the U.S. Department of the Interior.

Selected construction projects:

- Kohl's Department Store - Rapid City, SD
- Best Buy Store - Rapid City, SD
- Wal-Mart Supercenter - Rapid City, SD
- Safeway Store - Rapid City, SD
- Mt. Rushmore National Memorial Expansion Projects - Keystone, SD
- SD Army National Guard Training Site Barracks/Dining - Rapid City, SD
- Replace Family Housing Ph. 1, 2 and 3 - Ellsworth AFB, SD
- Rushmore Center - Ellsworth AFB, SD



POSITION IN FIRM:

Alex Fisher is a Senior Geotechnical Engineer and Project Manager for FMG, Inc. responsible for management of civil and geotechnical projects from coordination of field explorations to project design. Mr. Fisher has been with FMG since 2002 and has over thirteen years of experience in civil engineering and geotechnical and geological evaluations.

EDUCATION & TRAINING:

B.S. Geological Engineering, 2000, S.D. School of Mines & Technology, Rapid City, SD  
OSHA 40 Hour Hazmat Training and annual refresher course  
MSHA Certified  
Drilling & Blasting Course, University of Washington

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Registered Professional Engineer, States of SD, MN, CA (Civil), CA (Geotechnical), NM, MT, IL, IA, OR, UT, NV, WV, AZ, KS, and TX  
Past-President, South Dakota Engineering Society, Black Hills Chapter  
2008 Young Engineer of the Year, South Dakota Engineering Society, BH Chapter

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Project Engineer/Manager for numerous geotechnical evaluations and civil designs including the following projects:

- Enderlin Tap Substation – Enderlin, ND
  - Appeldorn Substation – Boyd, MN
  - Two Elk Transmission Line – Douglas, WY
  - Aragonne Mesa Interconnect – Santa Rosa, NM
  - Toroparu Mine Road Reconstruction – Guyana, South America
  - Toroparu Mine Off-Site Road and Port Infrastructure Pre-Feasibility Study – Guyana, SA
  - Muddy Creek Interconnect Substation – Evanston, WY
  - Wheelon Substation – Logan, UT
  - Culbertson Substation – Culbertson, MT
  - Watford City Substation, Watford City, ND
  - Wharf Resources HW 473 Relocation – Lead, SD
  - Elkhorn Ridge Wind Project - Bloomfield, NE
  - Beaver Creek Wind Project - Stillwater County, MT
  - Aragonne Mesa Wind Power Project - Santa Rosa, NM
  - Wessington Springs Wind Farm - Wessington Springs, SD
  - San Juan Mesa Wind Power Project - Elida, NM
  - Ellsworth Air Force Base B-1B Weapons Training Sim – EAFB, SD
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POSITION IN FIRM:

Jason Pettyjohn is a Civil Engineer for FMG, Inc. responsible for coordination and completion of civil infrastructure projects primarily in the Water and Wastewater Division. Mr. Pettyjohn has been with FMG since June 2009 and has over seven years of experience in civil engineering planning, design, and construction contract administration. Prior to joining FMG, Mr. Pettyjohn worked for Black & Veatch in Colorado Springs, CO for 2 years and for Keller Associates in Pocatello, ID for 3 years.

EDUCATION & TRAINING:

B.S. Civil Engineering, 2003, Montana State University, Bozeman, MT  
OSHA 10 Hour Construction Safety and Health and annual refresher course

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Registered Professional Engineer, States of SD, and CO

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Project Engineer and Resident Engineer for numerous civil engineering projects in the western states. Mr. Pettyjohn is experienced in the study, design, and construction of water source, transmission, distribution, and wastewater collection systems including the following projects:

- Jackson Boulevard Utilities Project, City of Rapid City, SD
- North Pinedale Water Storage Reservoir, Good Samaritans Society, City of Rapid City, SD
- Repair Sanitary Sewer, Ellsworth Air Force Base, SD
- Greenhorn Elevated Composite Water Tank, Board of Water Works, Pueblo, CO
- Waterline Replacement Project, United States Department of the Army, Piñon Canyon Maneuver Site, Colorado Department of Corrections, City of Trinidad, CO
- Raw Water Infrastructure Improvement Plan, Colorado Springs Utilities, Colorado Springs, CO
- Monument Creek Longitudinal / Bendway Weirs, Colorado Springs Utilities, Colorado Springs, CO
- Cabin Creek Trestle Blowoff Modifications, Colorado Springs Utilities, Colorado Springs, CO
- 56<sup>th</sup> Avenue and Holly Street Lift Station Upgrade, Wastewater Flow Metering Installations, and Odor Control Facility, South Adams County Water and Sanitation District, Commerce City, CO



POSITION IN FIRM:

Richard Sudmeier is a Project Engineer with FMG, Inc. Mr. Sudmeier has been with FMG, Inc. since 2005 and is responsible for analysis and design of transportation, drainage, bridge, and utility projects. Mr. Sudmeier has over nine years of experience in civil engineering planning, design and construction contract administration.

EDUCATION & TRAINING:

B.S. Mining Engineering, 2001, S.D. School of Mines & Technology, Rapid City, SD

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Registered Professional Engineer, States of SD, MN

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Project Engineer for numerous projects including the following :

- Creek Drive Bridge Hydraulics – Rapid City, SD
- Anamosa Street Reconstruction– SD DOT, and City of Rapid City, SD
- Elm Avenue Reconstruction, City of Rapid City, SD
- Meade Street Reconstruction – Rapid City, SD
- Lemmon Avenue Reconstruction – Rapid City, SD
- MSA Road Reconstruction – Ellsworth AFB, SD
- Bergstrom Drive Reconstruction – Ellsworth AFB, SD
- Knollwood Drainage Outfall–City of Rapid City, SD
- Jackson Blvd. Reconstruction– SD DOT, and City of Rapid City, SD

The following projects were under employment with NJS Engineering, Spearfish, SD:

- Bismarck Bridge Replacement Design, Prestressed – Butte Co, SD
- Prestressed Bridge Design, Yates Reclamation Project – Lead, SD
- Spearfish Creek Bridge Replacement, Concrete Slab – Lawrence Co, SD
- Redwater River Bridge Replacement, Prestressed – Lawrence/Butte Co, SD
- County Highway Reconstruction–Butte Co, SD

Mr. Sudmeier has also been employed with the South Dakota Department of Transportation and has participated in the design of several bridges and box culverts throughout the state, as well as the hydraulic analysis for design of bridges and box culverts throughout the State of South Dakota.



POSITION IN FIRM:

Derek Weidensee is a Registered Land Surveyor with FMG Inc. He has been with FMG. Inc. since February, 1991 and will be in charge of the all survey activities associated with various projects including the fieldwork.

EDUCATION & TRAINING:

Associate of Science, National College, 1989  
Various Federal, State and Private Short Courses and Seminars

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Registered Land Surveyor, State of SD No. 6119

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

A list of recent surveys completed by Mr. Weidensee follows:

- Canyon Lake Drive (Soo San Dr. to Dakota Dr.) - City of Rapid City, 4,800'
- Southwest Connector Road - City of Rapid City, 7,800'
- Eglin Street and East Anamosa Street - Menard, Inc.
- Eaker Drive - EAFB, 1,400'
- Chennault Drive - EAFB, 1,400'
- Foulois Drive - EAFB, 900'.
- Boyington Street - EAFB, 1,400'
- Doolittle Drive - EAFB, 2600'
- Twining Street - EAFB, 5200'
- Safeway Store Expansion, Spearfish, SD., Boundary and Topographic Survey
- SCI Plant Expansion Boundary and Topographic Survey
- Sheridan Lake Road (Canyon Lake Drive to Rapid Creek) - City of Rapid City, 1,200'
- Construction Staking Wal-Mart No. 91888
- Original Boundary and Topographic Survey for Wal-Mart No. 91888
- Boundary Surveys for Ellsworth Air Force Base, SD
- Construction Staking for Menard Development in Rapid City, SD
- Boundary Survey for SDARNG, Camp Rapid, Rapid City, SD
- Topographic & Construction Staking for Duke Corning Armory, Camp Rapid, Rapid City
- Route Survey and Construction Staking for Catron Boulevard, Rapid City, SD
- Ellsworth Air Force Base Waterline Easement Retracement - 8 miles



POSITION IN FIRM:

Dever Larson has been with FMG, Inc. for over thirty years as an Engineering Technician, Laboratory Manager, Environmental Scientist and Project Manager with FMG, Inc. in Rapid City, South Dakota.

EDUCATION & TRAINING:

BA Earth Science - 1975, Chadron State College, Chadron, Nebraska  
Undergraduate Studies - 1971 to 1972, South Dakota School of Mines and Technology, Rapid City, South Dakota

PROFESSIONAL RECOGNITION & ACHIEVEMENTS:

Mr. Larson is a Certified Petroleum Release Remediator (R-7494) and a licensed well driller (representing FMG) in the State of South Dakota. Mr. Larson is certified to operate a Nuclear Density Gauge, has completed the OSHA 40 hour safety course and is current on the yearly refresher course.

REPRESENTATIVE CAREER EXPERIENCE & PROJECTS:

Mr. Larson has been the project manager for Phase 1, Phase 2 and Phase 3 Environmental Site Assessments, Environmental Baseline Surveys and construction testing projects. Projects include Private, City, County, and State entities. Mr. Larson has had extensive background as the Laboratory Manager, including laboratory and field testing and construction observation.

Selected projects:

- Rapid City Parks Department Phase I Environmental Site Assessment (ESA)
- Rapid City Street Department Phase I ESA
- Rapid City Public School Warehouse Phase I ESA
- Building 102, EAFB Phase II ESA
- Area D, EAFB Phase II ESA
- AGE Facility, EAFB Phase II ESA
- South Dakota Army National Guard (SDARNG) Camp Phase I ESA
- SDARNG Custer OMS Environmental Baseline Survey (EBS)
- SDARNG Lemmon OMS EBS
- South Dakota Development Center Phase II ESA
- Arrowhead Pesticide Phase II ESA
- GF&P Outdoor Campus Phase I ESA
- Wyodak Phase I ESA