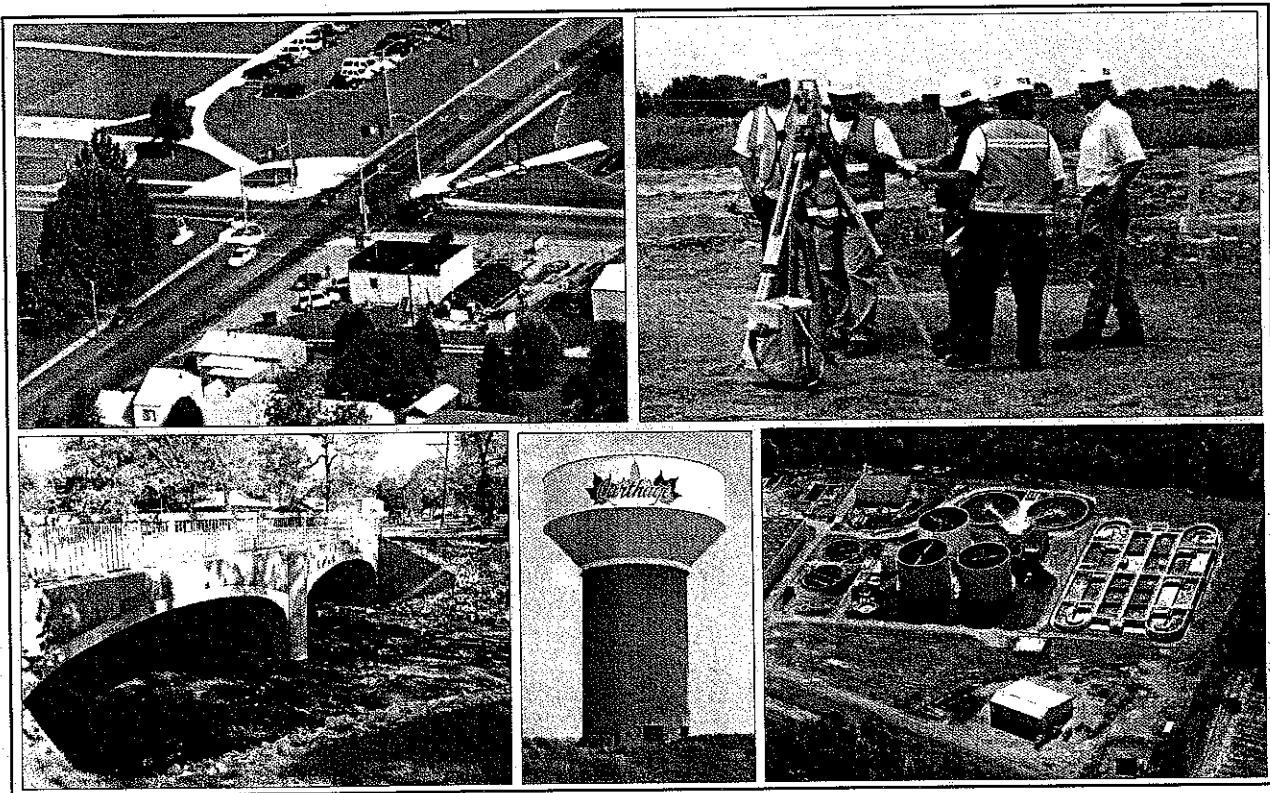


**Statement of Qualifications
for
Horton, Kansas
for
Improvements to Central Avenue**



ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers · Hydrologists · Surveyors

Corporate Office
2820 S. Range Line Road
Joplin, MO 64804
417.624.5703

Hydro Division Office
112 West 8th Street
Rolla, MO 65401
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Web Site: www.amce.com

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February 22, 2007

Mr. Levi J. Henry
City Administrator
City of Horton
205 East Eighth Street
Horton, KS 66439-0030

Re: Professional Engineering Services
for Improvements to Central Avenue

Dear Mr. Henry;

Thank you for the opportunity to present the qualifications of Allgeier, Martin and Associates, Inc., relative to the improvements to Central Avenue between 10th and 15th Streets.

Within this Statement of Qualifications you will find information relating to Allgeier-Martin's experience and technical competence. Presently we maintain a staff of just over 100, providing consulting engineering services to the four-state area.

Allgeier-Martin has gained a reputation of professionalism throughout the area. Whether control of costs, quality of work or ability to meet schedules, we are recognized as a leader in getting the job done right and on time.

We are pleased to provide references that affirm our ethical, professional and timely work. We encourage the City to contact any of the references provided within the following company qualifications. We are proud of the fact that most of our listed references consist of repeat clients with successful relationships spanning over many years.

We look forward to working with you in the future.

Very truly yours,

ALLGEIER, MARTIN and ASSOCIATES, INC.



Harold McCoy
Director of Business Development

Statement of Qualifications for City of Horton for Improvements to Central Avenue

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Fifty-Three Years of Excellence
1954-2007

Statement of Qualifications
for
City of Horton
for
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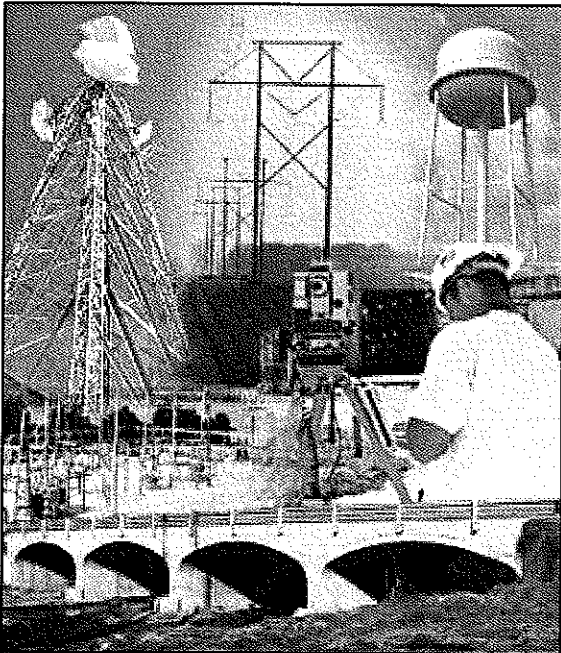
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Section 1

Overview of the Firm



ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers • Hydrologists • Surveyors

Stability

Established in 1954

Size

Over 100 employees

Expertise

- Electrical
- Civil
- Power
- Structural
- Construction Monitoring
- Surveying
- Mapping
- Planning
- Design
- Cost Estimating

Corporate Office

2820 S. Range Line Road
Joplin, Missouri 64804
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Hydro Division

112 West 8th Street
Rolla, MO 65401
1.800.994.9487

Full Service Consulting Engineering

Allgeier, Martin and Associates, Inc. has provided planning, design, and construction phase engineering services to public and private sector clients since 1954. Two Divisions—Electrical and Civil—provide our clients specialized professional expertise.

Civil Engineering Services

- Airports
- Bridges
- Buildings
- Compliance Permit Applications
- Comprehensive Planning (zoning, subdivision regulation, traffic planning)
- Construction Monitoring
- Environmental Studies & Plans
- Hazardous Waste Management
- Hydrologic Analyses
- Hydraulic Structures
- Industrial Waste Management
- Industrial Wastewater Pretreatment
- Recreational Facilities
- River Engineering
- Site Investigations & Assessments
- Stormwater Management
- Street Lighting
- Streets
- Storage Tank Design & Removal
- Wastewater Collection
- Wastewater Treatment
- Water Distribution
- Water Supply
- Water Treatment
- Water Storage

Directors and Officers of the Firm

William M. Thompson	President
Robert D. Carpenter	First V.P./Treasurer
Dean A. Willis	Executive Vice President
Vernon R. Lawson	Senior Vice President
Arthur E. Spears	Senior Vice President
Karl G. Kinler	Senior Vice President/Secretary
Glen R. Davidson	Senior Vice President/Asst. Sec.
Steven C. McNabb	Senior Vice President
Kurt Higgins	Vice President
Chris Erisman	Vice President
Barton Nichols	Vice President
Joseph P. Wilson	Vice President
Monnie D. Sears	Assistant Secretary

Civil Engineering Services

The Civil Division serves municipalities, government agencies, institutions and industries. We have provided the complete range of civil engineering services usually needed by small and medium-sized cities. Because of the multi-disciplinary approach, many of our clients have no need to go beyond Allgeier Martin, even for large complex projects.

Electrical Engineering Services

- Corrosion Mitigation Systems
- Distribution Line Design through 25kV
- Gas & Diesel-Fired Generation
- Grounding Networks
- Long-Range Facilities Planning
- Microwave Communication Systems
- Optical Fiber Systems
- Power System Studies
- Power Supply Studies
- Protective Relaying Systems
- Rate Studies
- SCADA Systems
- Substation Design, 2.4 kV through 500kV
- Transmission Line Design through 345kV
- System Mapping and GIS Services
- Regulatory Compliance Assistance
- Property, Route and Easement Surveying

Electrical Engineering Services

The Electrical Division serves rural electric cooperatives, investor-owned and municipal-owned utilities. We have the capability to undertake large, complex electrical engineering projects and have planned and managed projects in nine states in the mid-west.

Major Software Experience

- | | |
|------------------|------------------------|
| AutoCAD | HEC-RAS |
| Hec 1 and II | Aspen |
| Cybernet | Windmil |
| WADISO | LEAP (Bridge Programs) |
| SoftDesk | PLS-CAD |
| Microsoft Office | |

Survey Services

- ALTA/ACSM
- Construction Staking
- Boundary/Topographic Surveys
- GPS

Reprographics Facilities

Our reprographics department is one of the most complete in the area. Modern, large-format scanner/printers, high-speed copier/scanner/printers and large and well-equipped engineering camera and photographic lab serves our engineering and mapping needs as well as providing custom work for other firms.





Civil and Electrical Division Key Staff 01/07

Name	Professional Registration	Specialty	State(s) of Registration	Yrs. Of Experience	Yrs. With
Adair, Randy	P.E.	Electrical Engineering—Transmission	MO	24	7
Atkinson, Mike	P.E.	Civil Engineering Transportation Engineering	MO-KS	13	7
Brown, Mike	P.E.	Civil Engineering—Electrical Transmission	MO-IL-AR-TX	29	6
Carpenter, Robert		Computer Applications		39	24
Davidson, Glen R.	P.E.	Civil-Sanitary Engineering	MO-OK	28	28
DeGruson, James	E.I.T.	Civil Engineering		5	5
Dingess, Rod		Environmental Specialist		41	19
Doerge, Chris		Electrical Designer		22	13
Doolin, Charles D.		Surveys		46	43
Duke, William H.	P.E.	Electrical Engineering Distribution	MO-KS-AR-IL	40	38
Erisman, Chris	P.E.	Civil—Sanitary Engineering	MO-OK	13	11
Higgins, Kurt E.	P.E.	Civil—Stormwater Engineering Transportation Engineering	MO-KS-OK	12	12
Horner, Alfred	P.E.	Structural Engineering	MO-KS-OK	33	33
Huff, Tim		Electrical Design		36	33
Judd, Michael R.	P.E.	Electrical Distribution	MO	33	24
Kinler, Karl G.	P.E.	Electrical Engineering Transmission and Distribution	MO-OK	33	25
LaGasse, Louis		Engineering Assistant		30	30
Lawless, Estill	P.E.	Electrical Control Systems	OK-TX	34	28
Lawson, Vernon R.	P.E.	Electrical Engineering Substations, Generation and Distribution	AR-IL-IN-IO-KS-MI- MO-OK-TX	54	53
Lofton, James A.	P.E.	Civil-Structural Engineering	KS-MO-NE-OK-IA	33	24
McCoy, Harold	P.E.	Civil Engineering	MO	41	2
McNabb, Steven	P.E.	Electrical Engineering Generation Transmission and Distribution	MO-OK-TN-AR-KS	23	21
Maddox, Steve		Construction Representation		22	22
Nelson, Robert		Construction Representation		36	9
Nichols, Barton	P.E.	Electrical Engineering Substations and SCADA	MO-AR-KS-AR	18	18
Patterson, Charles E.	P.E., Ph.D.	Civil Engineering/Hydrology	MO	19	1
Reynolds, Mark R.	P.E.	Electrical Distribution	MO	8	8
Roush, Mark	E.I.T.	Electrical Control Systems		25	5
Schaller, Jack	P.E.	Civil Engineering Transportation Engineering	MO-KS-OK	13	10
Sears, Monnie	R.L.S.	Surveys	MO-KS-OK-AR	14	5
Simon, Sarah M.	E.I.	Civil Engineering/Hydrology	MO	3	1
Spears, A. Eugene	P.E.	Transportation Engineering Civil Engineering	MO-KS-OK	44	41
Thompson, William	P.E.	Electrical Engineering Substations and Communications	MO-OK-KS-IL	35	30
Willis, Dean A.	P.E.	Sanitary Engineering	MO-KS-OK-AR	32	30
Willis, Jimmy L.		Construction Representation		40	40
Wilson, Joseph P.	P.E., P.H.	Civil Engineering/Hydrology	MO-OK-LA	21	1
Wright, J.K.		Electrical and Communications Design		43	42

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Section 2

**Ability to Perform and
Related Issues**



Grant/Loan Programs

- State Revolving Funds
- Community Development Block Grants
- Rural Development
- Economic Development Grants
- State Grant Programs
- FAU/BRO Grants

"Project Active" Top Managers

- Experience
- Timeliness
- Responsiveness
- Attention to Detail

Regulatory Agency Experience

- MDNR
- MoDOT
- MO. DED
- KDHE
- KDOT
- ODEQ
- ODOT
- FEMA/SEMA
- Rural Development
- Corps of Engineers

Ability to Perform

Managing a project from planning through construction requires experience with both protocol and process. Funding and regulatory agencies require time for review and comment at various stages. Coordination of staff in the completion of each project element calls for experience with time allotment. Allgeier-Martin has established an excellent record of performance in terms of cost control, quality of work, and ability to meet schedules.

Allgeier-Martin's top management, our most experienced professionals, remain actively involved in projects from initiation through completion. The direct benefits to clients of this unique characteristic are a high level of quality, increased attention to detail, and greater company responsiveness to client needs.

Experience with Regulatory Agencies

Through five decades of providing civil engineering services Allgeier-Martin has developed significant experience with the various regulatory agencies responsible for the review and approval of project designs. We take great care in cultivating working relationships with each agency that will benefit our clients.

You will find Allgeier-Martin a name familiar to regulatory agencies in Missouri, Kansas, and Oklahoma, and one that has a reputation of being thorough, professional, and ethical.

Experience in Grant/Loan Programs

Allgeier-Martin has extensive and current experience in a myriad number of public funding programs. We have worked on water and wastewater projects funded by State Revolving Fund Loans, Community Development Block Grant Funds, and Rural Development Loans and Grants. Economic Development Administration Grants have funded industrial park infrastructure, and street projects, as well as water and wastewater improvements. Airport projects have been funded with FAA assistance. Projects for bridges, culverts, streets, intersection improvements, signalization, street lighting, and utilities relocation have been funded with MoDOT, Federal Aid Urban (FAU), and Bridge Replacement Off system (BRO) grants. Kansas transportation projects funded through KLINK are also a part of our vast experience.

Allgeier-Martin's experience offers our clients a resource of current and extensive knowledge in the record keeping requirements and conditions inherent with each funding program.



Experience in Rural Water Systems

- System Upgrades
- New Districts
- Water Supply
- Water Treatment
- Water Storage
- Water Distribution
- Pumping Stations

Planning Phase Services

- Hydraulic Analysis
- Preliminary Engineering Reports
- Rate Studies

Design Phase Services

- Conduct Field Surveys
- Develop Final Design Documents
- Prepare Construction Drawings
- Prepare Technical Specifications
- Prepare Contract Documents
- Submit Documents for Regulatory Review

Construction Phase Services

- Project bidding
- Contract Award
- Review Cash-Flow
- Construction Staking
- Provide Resident Project Representation
- Provide Contract Administration
- Review Shop Drawings
- Develop Record Drawings
- Develop O & M Manuals
- Provide Start-Up/follow-Up Services

Experience in Cost Estimating

Allgeier-Martin recognizes that accurate and reliable cost estimates are crucial elements to the successful completion of all projects. Familiarity with the type of project in question, the location of the project, and experience in bidding projects all contribute to accurate estimates. The size of our firm, coupled with the number of our projects that bid each year, gives us extensive and current experience that we rely on in preparing cost estimates.

Experience in Cost Control

With respect to cost control, we have prepared the following table presenting the difference between bid price and final contract price for construction of several projects similar to the one in question. This is a way of measuring our ability to produce bid documents that are complete and accurate, and providing appropriate management during construction. It is our belief that projects that are well designed and managed have smaller changes in price. Increases in price that do not exceed ten percent are usually considered acceptable.

Responsiveness to Owner's Concerns

Over fifty years in the practice of engineering has taught us the importance of listening. We listen to the needs and concerns expressed by our clients—the project owner—and do our best to incorporate those needs and concerns into the finished project. Allgeier-Martin believes that our many years of experience testifies to our ability to listen, to communicate, and to develop lasting, successful working relationships.

Our engineers are careful not to force-feed precooked solutions on their clients. We commit time to learning your experiences, your preferences, and your objectives. We then draw on our experience and expertise to design a project that meets your needs—not ours.

Don't just take our word for it—we urge you to contact our references and hear this from them.



Cost Control
Table Presenting % Change in Construction Cost

<u>Project</u>	<u>Location</u>	<u>Bid Price</u>	<u>Final Construction Price</u>	<u>Change</u>
Downtown Storm Water Improvements	Carl Junction, MO	420,473.65	450,893.95	+7.2%
Highway Z Water Line Improvements	Carl Junction, MO	59,133.00	60,133.00	+1.7%
Center Creek Bank Stabilization	Carl Junction, MO	21,602.00	20,000.00	-7.4%
2004 Water System improvements	Carl Junction, MO	1,849,926.97	1,853,117.00	+0.2%
2002 WWTP Improvements	Carl Junction, MO	676,952.00	680,104.81	+0.2%
1996 WWTP Improvements	Carl Junction, MO	925,5634.00	926,233.00	+0.1%
1998 North Interceptor Sewer	Carl Junction, MO	173,401.46	176,511.67	+2.9%
No. 2 Well and Tower	Branson West, MO	\$461,350.00	\$460,800.25	-0.1%
Route 36 Utilities Relocation	Branson West, MO	312,061.00	327,297.05	+4.9%
Water & Sewer Extensions (to Reed Spring H.S.)	Branson West, MO	214,854.60	229,861.45	+7.0%
"C" Line Interceptor Sewer	Branson West, MO	154,409.00	152,909.00	-1.0%
Lower S. Aunt's Interceptor Sewer	Branson West, MO	315,527.75	313,777.75	-0.6%
Upper S. Aunt's Interceptor Sewer	Branson West, MO	214,699.60	223,091.80	+8.6%
WW Pumping and Force Main	Branson West, MO	308,185.20	311,380.27	+1.0%
S. Aunt's Creek WWTP	Branson West, MO	2,538,809.00	2,538,862.17	—
ECWAG #1 (Water Lines & Standpipe)	Daviess PWSD 2 (MO)	409,236.10	412,946.78	+0.9%
South Standpipes	Daviess PWSD 2 (MO)	193,450.00	192,792.00	-0.3%
South Distribution System Water Lines-Sec 1	Daviess PWSD 2 (MO)	1,089,055.70	1,101,403.94	+1.1%
South Distribution System Water Lines-Sec 2	Daviess PWSD 2 (MO)	2,134,538.30	2,187,756.18	+2.5%
ECWAG #2 (Water Lines)	Daviess PWSD 2 (MO)	155,362.20	169,501.20	+9.1%
North Distribution System Water Lines	Daviess PWSD 2 (MO)	1,412,869.10	1,453,463.99	+2.9%
Water Lines, Standpipes & Booster Pump Station	Caldwell PWSD 3 (MO)	2,998,809.50	3,130,427.45	+4.3%
Water Supply Well, Treatment Facilities, and Water Tower	Vernon PWSD 2 (MO)	648,938.00	650,751.00	+0.3%
Wastewater Lagoon Improvements	Stella, MO	328,886.60	336,750.06	+2.4%
Water System Improvements	Purdy, MO	542,796.00	540,456.40	-0.01%
Elevated Storage Facility	Lebanon, MO	705,000.00	705,000.00	0.0%
Jasper County Bridge Replacements	Jasper County, MO	1,108,755.40	1,130,093.20	1.9%
Lick Creek Bridge Replacement	Ozark county, MO	457,848.00	461,038.00	0.7%
Hickory Creek Bridge Replacement	Newton County, MO	279,733.22	279,412.22	-0.1%

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Section 3
Experience

Industrial Park Road Improvements**Neosho, Missouri**

This project consisted of constructing an entrance to several industrial park buildings. The project entailed using an existing county road and widening the road to allow for a 30-foot driveway. The roadway was then compacted and 6" of AB-3 was placed followed by 6" of BM-2B asphalt. The project length was approximately 2500 feet.

Route CC**West Plains, Missouri**

Project included widening the existing roadway from 27 feet to 42 feet of existing pavement; addition of curb and gutter and storm sewers. An existing box culvert was replaced and extended and a new box culvert was constructed in parallel. The project involved the construction of new traffic signals on each end of the roadway, which were designed by Allgeier-Martin. The Project was on a major commercial thoroughfare and was constructed under traffic to maintain ingress and egress to existing businesses located on Route CC. These businesses included Meeks Lumber, TCBY, Conoco Quick Stop, Sonic and various other businesses.

Monett, Missouri

Allgeier-Martin completed the design and construction representation phases of a new section of Cleveland Street from 10th to 13th Streets in the City of Monett. The project comprised 970 linear feet of 36 feet wide asphaltic concrete pavement with curb and gutter. The project also included 1000 linear feet of 24" RCP, and 400 linear feet of 24" RCP storm sewer with drop inlets. The project was partially funded by MoDOT and connected two previously completed signalized intersections.

Route H**Monett, Missouri**

Allgeier-Martin completed the construction phase of an intersection improvement and roadway phase of an intersection improvement and roadway-widening project on U.S. Business Route 60 and MO Route H in Monett, Missouri. The intersection was geometrically insufficient to carry the existing vehicular and the additional traffic generated by the overpass project. The improvements consisted of signalization for vehicular and pedestrian traffic in order to enhance the safety aspect of the project location. The project included 1,800 linear feet of roadway widening, storm sewer, and curb and gutter.

St. Johns Boulevard**Joplin, Missouri**

New street composition—8,000 S.Y. asphalt surfacing, base and aggregate sub-base, subgrade stabilization, 3,900 L.F. curb and guttering, storm sewer and related appurtenances.

Crossroads Industrial Park**Joplin, Missouri**

New streets surfacing with 4-inch asphalt base, 2 inch surfacing on 6,200 S.Y.

Wyandotte Nation**Wyandotte, Oklahoma**

Project 0170G-S—New street construction of 34,900 S.Y. with subgrade stabilization, aggregate base, and asphalt surfacing, curb and gutter and stormwater culverts.

Burlington, Kansas

Commerce Park Roadway—4,700 S.Y. of 7" reinforced concrete pavement—11,120 S.Y. lime stabilized subgrade, 11,120 S.Y. AB—3 aggregate base, 2800 S.Y. asphalt surfacing, stormwater culverts and ditching.

Fifth Street**Coffeyville, Kansas**

This CDBG project consisted of sub grade modification, placement of geogrid reinforcement, asphalt pavement, and storm sewer modification. The project also involved the addition of new concrete driveways and sidewalks. The existing pavement on 5th was milled and all of the existing underlying brick was removed down to sub grade. The removal of old timbers and ballast from a long abandoned trolley car route also added to the complexity of the project, by causing substantial weakness in the sub grade. The road was also plagued by poor drainage as well as one end tying into a not yet constructed storm sewer. Provisions were made to stabilize the poor sub grade by the use of geogrid and extra base rock. The centerline profile of the roadway was modified to facilitate drainage throughout the project. The placement of 6" of AB-3 as well as 6" of BM-2 asphalt made for a roadway fit for both residential and commercial traffic. All new entrances and sidewalks were constructed of concrete, as well as the addition of concrete curb and gutter along the entire project.

Miscellaneous Street Projects**Odessa, Missouri**

Allgeier-Martin has provided design and construction phase oversight of several road improvement projects including cold milling and asphalt overlay of more than 40,000 S.Y. of city streets, curb and guttering, storm sewer installation, new subgrade, base and surfacing, etc.

First Street and Sparks Avenue**Coffeyville, Kansas**

This project consisted of the use of Petromat strips to control pavement cracking, a BM-2 asphalt overlay and the use of bound drainable asphalt base as well as sub grade modifications on Sparks Avenue. The subgrade modifications consisted of the use of geogrid reinforcement to stabilize the sub grade and the use of a drainable pavement to allow water to migrate across an area with limited drainage. The 1st Street part of the project was a mill and overlay of the exiting roadway. Both of these roadways are heavily traveled by tractor-trailer traffic as these roads provide access to a local industry.



Other Recent Street Projects**Street Improvements—West Plains, MO**

Improvements to 15 city streets, involving curbing, guttering, surfacing, and improvements. The total project comprised more than 20,000 linear feet with related intersections and utilities. The projects were located in densely populated areas of the City, requiring extensive relocation of underground and overhead utilities.

Highway 63 interchange utilities relocation. Preceding the large scale improvements of this major interchange on the north portion of the City, Allgeier-Martin located all utilities within the project area, designed their relocation, and provided resident engineering to oversee the construction. All activities were reviewed by the Missouri Department of Transportation.

Junge Boulevard—Joplin, MO—Realignment of existing roadway to facilitate expansion of football stadium.

Industrial Park—Neosho, MO—Design of approximately 1.5 miles of new roadways.

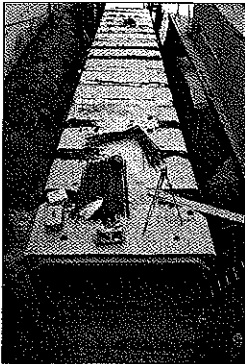
Wyandotte Tribe of Oklahoma—Design of improvements to existing roadways including asphalt curb and gutters and storm drainage requiring ODOT approval.

Industrial Park Improvements—Miami, OK—Design of 1.5 miles of new concrete pavements and asphalt widening of highway to ODOT standards.

Industrial Park Improvements—Burlington, KS—Design of 2,000 feet of asphalt and concrete roadways and 1,300 feet of highway widening to KDOT standards.

Joplin, Missouri

Allgeier-Martin provided an engineering review of route selection and design criteria for the Willow Branch Storm Drainage project, to reduce the effects of stormwater on Joplin's central business district. Following the watershed analysis and design survey, Allgeier-Martin provided the engineering design and construction-phase administration for the recently completed Phase I project, consisting of approximately 2200 lineal feet of box culverts varying from double 13 ft. by 5 ft. structures to 12 ft. by 5 ft. boxes. The \$2.6 million storm drainage project was located in close proximity to existing structures and utilities in Joplin's downtown area. Design of the Phase II project is ongoing, with plans to construct an additional 3200 lineal feet of box culverts from 12 ft. by 4 ft. size to 5 ft. by 4 ft. size. A Phase III project is planned immediately upon completion of the ongoing project.



Carl Junction, Missouri

A Comprehensive Stormwater Plan was completed by Allgeier-Martin for the City of Carl Junction to identify and prioritize storm drainage needs. The plan has served as the basis for applications for grants and other funding for stormwater improvements. The design of improvements to the storm drainage system in the central business district was completed by Allgeier-Martin, with planned construction of drainage structures to carry stormwater across the state highway to an improved open channel.

Allgeier-Martin also assisted the City in development of local regulations and a stormwater management design manual which establishes stormwater related regulations for development in the City of Carl Junction. As the City's engineer, Allgeier-Martin reviews plans for development which are submitted to the City, to insure compliance with local requirements.

Carthage, Missouri

Allgeier-Martin developed an engineering plan for the City of Carthage to address immediate needs for stormwater management in the City. The report consolidated previous studies and evaluated topography and development patterns in order to prioritize stormwater needs. Estimated project costs were provided to facilitate funding of the improvements.

Chillicothe, Missouri

This storm sewer project involved some 48,600 feet of storm sewer piping ranging in size from 15-inch to 84-inch diameter. The project involved the construction of separate storm sewers to eliminate storm flows to the existing combined sanitary/storm sewer system. Numerous curb inlets were removed and new inlets added. Project was EPA-funded in part, and totaled approximately \$5.6 million.

Northpark Mall—Joplin, Missouri

For the initial phase of Northpark Mall, Allgeier-Martin was retained to provide site utilities plans, which included approximately 700 feet of site stormwater piping and detention storage facilities. Surface detention was also provided in conjunction with the parkways.

Channelization of Long Branch Creek, Whiteman AFB, Missouri

Under an indefinite delivery contract with the Corps of Engineers, Allgeier-Martin conducted hydrologic and hydraulic studies of the Long Branch Creek drainage area on Whiteman Air Force Base. Areas of the base have been subject to frequent flooding and have reportedly caused high runoff to adjacent private property. We also prepared designs, specifications, and cost estimates for various improvements, including extensive slope stabilization, improvements in channel alignment and condition, extension of 12-foot-diameter runway culverts, installation of security gates on the culvert ends, construction of culvert ends, construction of culvert headwalls, and other works intended to improve drainage.



Oronogo, MO

Water System Improvements

Oronogo, Missouri is a growing community of people located approximately 10 miles north of Joplin, Missouri. The community is served by two deep water supply wells and one elevated water storage tower. In 1997, the City found its water system was failing in terms of an inadequate storage volume, deteriorating distribution mains, and failing supply wells. At that time, Allgeier, Martin & Associates, Inc., determined that nearly 70 percent of the system's water supply was lost through the nearly 100 year old distribution system.

Allgeier-Martin was retained by the City to plan and design improvement projects to upgrade the water supply and distribution facilities. Through detailed evaluation of the system, Allgeier-Martin recommended a phased approach to correct the existing operational and production concerns. Allgeier-Martin's preliminary Engineering Services included:

- Planning and location of the proposed improvements
- Preliminary sizing and layout of storage and distributing mains
- Formulation of cost estimates
- Public meetings
- Meetings with funding and regulatory agencies
- Assistance in preparing grant applications.

The improvements recommended were constructed in three phases and included:

Phase I—Completed July 1999, construction cost \$373,400.

- 5,300 LF of 6 and 8 inch diameter distribution mains
- 100,000 gallons elevated water storage
- Demolition of existing 50,000 gallon storage facility

Phase II—Completed April 2000, construction cost \$45,300.

- Replaced and lowered well pumps - (2) existing wells
- Electrical modifications to accommodate larger well pumps

Phase III—Completed December, 2000, construction cost \$383,300.

- 12,000 LF of 2 through 6 inch diameter distribution main

Allgeier, Martin & Associates provided the design phase services and the construction engineering and inspection phase services for each of these stages of work. Total project construction costs of approximately \$802,000 were funded by a combination of grants and loans from the Missouri Department of Natural Resources, Community Development Block Grant Program, and USDA Rural Development.

In December 2002, Allgeier-Martin completed a new facility plan for Oronogo based on tremendous residential growth seen in the community. The new plan included recommendations for a project that includes:

- *600,000 gallon elevated storage
- *New SCADA telemetry system
- *Approximately 12,000 LF of 8 to 10 inch diameter water mains
- *New water supply well

Allgeier-Martin is currently under contract to design these improvements.

Carthage, Missouri
Comprehensive Study of Municipal Water System

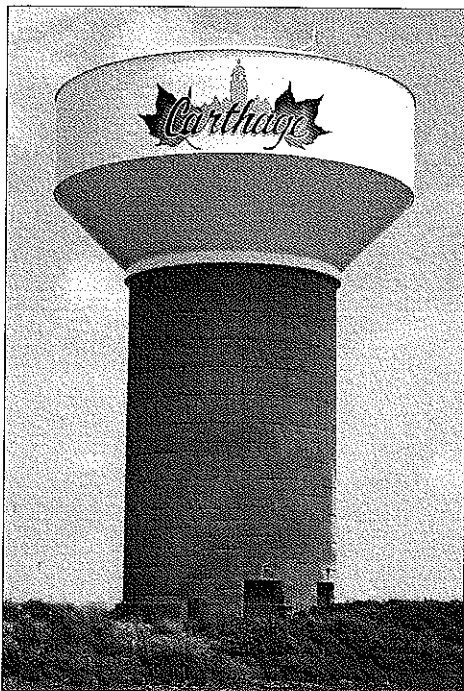
The Carthage Water and Electric Plant (CWEP) is responsible for operating and maintaining the municipal electric, water, and wastewater systems. The water systems serves a population of approximately 11,000, as well as a large number of commercial and industrial users. The system's water supply consists of several deep aquifer wells, which produce raw water that is treated by a water softening plant.

CWEP retained Allgeier-Martin to conduct a comprehensive study of immediate and long-term needs relative to water supply, treatment, storage and distribution. The study consisted of the following tasks:

- * Assessment of historical water system demand, and projection of future demands
- * Evaluation of existing water system facilities, and their ability to meet future demands
- * Assessment of current water treatment plant capacity and reliability, and current operating practices
- * Analysis of alternative improvements to increase water system supply, treatment, storage, and distribution capacities
- * Assessment of anticipated regulatory treatment requirements, and their affect on the existing system and proposed improvements.

Pursuant to the completion of this study, Allgeier-Martin provided design services for two new water supply wells, water treatment facilities expansion, and two new 2.5 million gallon elevated storage facilities.

The improvements were funded through accumulated reserves.



*Vernon County, Missouri
Public Water Supply District No. 2*

Vernon County PWSD No. 2 has been in service since 1967, and now serves almost 1,200 people through 460 meters. Since its inception, the district has purchased all of its water on a wholesale basis from a neighboring public water supply. Various circumstances led the district, in 1995, to begin considering the idea of developing their own water supply and treatment system.

Allgeier-Martin was retained to prepare a study examining the feasibility of a new water supply and treatment system. The study concluded that it was indeed feasible and desirable for the District to produce its own water. The study also concluded that the district was severely deficient with respect to the volume of finished water storage.

Services provided by Allgeier-Martin on this current project include preparation of cost estimates, assistance at public hearings, assistance with grant applications, and preparation of grant and loan applications.

The project design consists of Water supply well; 227 gpm water treatment facility (aeration, chlorination, high service pumps) and 200,000 gallon elevated water storage facility.

The \$796,000 project is being funded through the Missouri Department of Natural Resources State Revolving Loan Fund. Construction began in mid-2001 and were successfully completed in 2003.

*Consolidated Public Water Supply District No. 1
Pemiscot County, Missouri*

CPWSD No. 1 engaged Allgeier-Martin to prepare a comprehensive study of their existing water supply, treatment and distribution facilities. The district had been plagued with low pressures and inadequate supply problems for many years. The CPWSD system consisted of ten water storage tanks, three treatment facilities, three booster pump facilities and over 50 miles of water lines.

The study revealed that marginal well capacity, restrictive line sizes and the location of existing points of supply were major contributors to low system pressures.

Two major projects have resulted from the comprehensive study. The 1996 Channell Project consisted of the following:

- < 1,350 ft. deep, 300 gpm water supply well
- < Water Treatment Facility (iron removal via aeration, lime addition, chlorination, fluoridations settling and filtration)
- < High Service Pumps
- < 100,000 gallon elevated water storage

The Stubtown Water Treatment Plant Modifications, now under construction, consist of the following elements:

- < New sedimentation tank
- < Replace existing aerator
- < New chemical storage and feed building
- < Miscellaneous plant-wide cleaning, structural repairs, etc.

These improvements will enable the plant to operate at a design capacity of 300 gpm, extend its useful life, and improve plant reliability and efficiency. Both projects were funded through the Community Development Block Grant Program.



Allgeier, Martin & Associates, Inc. Public Water Supply Clients

Many of our water system projects have been directly associated with planning and design relative to expansion, improvements, and development of water supplies, distribution, and storage. Each project has been preceded by thorough study and research in order to provide our client with a functional, efficient, and cost-effective system.

Many of our water supply and distribution system clients are listed below:

Missouri

Alba-Purcell
Anderson

Birch Tree
Branson West

Camdenton
Carl Junction

Carthage
Cassville

Chillicothe
Clever

Crane
Crocker

Diamond
Diggins
Drexel

El Dorado Springs
Exeter

Golden City
Goodman
Granby
Greenfield

Independence
Ironton

Jasper

Lanagan
Lebanon
Liberal
Loma Linda

Madison

Mindenmines
Monett
Mount Vernon

Niangua
Noel
Norwood

Oronogo

Pierce City
Purcell
Purdy

Southwest City

Thayer
Tipton

Versailles

Walker
Webb City

Arkansas

Rogers

Kansas

Arma
Cherryvale
Chetopa
Mound Valley
Walnut

Oklahoma

Bartlesville
Copan
Miami
Picher
Quapaw
Vinita

Rural Water Well Projects

Anderson Poultry Products Co.
Bates County
Callaway County PWSD #2
Clinton County PWSD #2
Co-Me Electric Cooperative
Iowa Truck Stops, Inc.
Labette County
Lebanon
Petro Truck Stops
Texas County PWSD #2
Texas County PWSD #3
Texas County PWSD #4
Wilson County
Wyandotte Tribe

**Statement of Qualifications
for
City of Horton
for
Improvements to Central Avenue**

ALLGEIER, MARTIN and ASSOCIATES, INC.

Consulting Engineers • Hydrologists • Surveyors

Corporate Office

2820 S. Range Line Road
Joplin, Missouri 64804
417.624.5703

Hydro Division

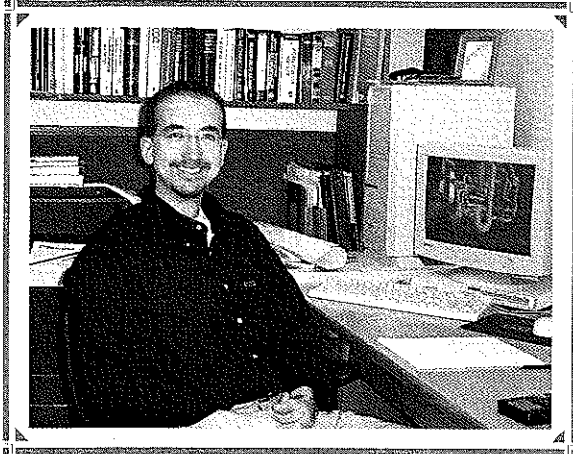
112 West 8th Street
Rolla, MO 65401
573.341.9487

www.amce.com



Section 4

**Resumes of
Key Personnel**



Michael R. Atkinson, P.E.
Civil Engineer and Project Manager
Allgeier, Martin & Associates, Inc.

Professional Experience

Mr. Atkinson is a Project Manager/Engineer with Allgeier, Martin & Associates, Inc. (February 2003 to Present and Previously from April 1997 to July 2000), where he is responsible for Transportation and Structural related projects. His experience includes the following.

- Bridge Design and Rehabilitation
- Road and Street Design
- Miscellaneous Drainage and Cross Road Structures
- Site Development
- Sewer Line Construction
- Plan Reviews
- Hydraulics and Storm Water Hydrology
- Foundation and Structural Design

Prior to joining Allgeier-Martin, Mr. Atkinson served as a Construction Engineer and Inspector in the Project Office for the Missouri Department of Transportation. Work included construction staking and layout, project management and inspection. During his brief time away from Allgeier-Martin, Mr. Atkinson served as the Chief Structural Designer and Project Manager for one of MoDOT's major district wide bridge rehabilitation project. Work included deck replacements, widening and strengthening of the bridge superstructure, bridge rail upgrade and retrofit, widening of approach roadways and substructure restoration.

Education

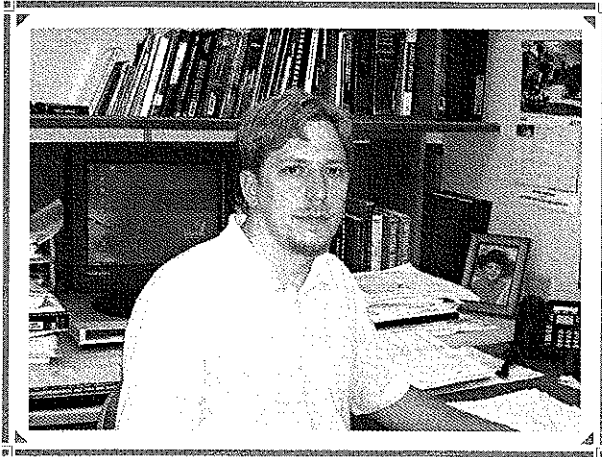
Bachelor of Science
Civil Engineering
University of Missouri,-Rolla 1994

Registrations

Professional Engineer
Missouri

Memberships

National Society of Professional Engineers

**Education:**

B.S., Civil and Environmental Engineering
University of Missouri-Columbia, 1999

Masters in Civil & Environmental Engineering
University of Missouri-Columbia, 2002

Registration:

Professional Engineer
Missouri

Eric DeGruson

Civil Engineer

Allgeier, Martin and Associates, Inc.

Specialties: Civil and Environmental Engineering
Water and Wastewater Project Engineering

Summary of Experience: Responsible for computer modeling and evaluation of water system distribution, supply and storage.

Experienced in planning and design of municipal water and wastewater system.

Familiar with role as liaison with federal, state and city regulatory agencies.

Experienced in computer modeling analysis.

Professional History:

2001—Date Allgeier, Martin and Associates, Inc.
Joplin, MO

**Statement of Qualifications
for
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112 West 8th Street
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573.341.9487

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Section 5

References



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Mr. Bob Williams
Carthage Water & Electric Plant
Carthage, MO
417.359.8104

Mr. Mike Moss
Mayor
Mrs. Maribeth Matney
City Clerk
Carl Junction, MO
417.649.7237

Ms. Millie West
Mayor
Oronogo, MO
417.673.4541

Mr. Chance Morgan
City Administrator
Webb City, MO
417.673.4651

Mr. Chuck Shively
Water and Sewer Superintendent
Coffeyville, KS
316.252.6100

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417.272.3313

Ms. Hilda Wallace
Mayor
City of Greenfield
Greenfield, MO 65661
417.637.2532

Mr. Ron Kaiser
Wyandotte Nation
Wyandotte, OK 74370
918.678.2297 Ext. 225

Mr. Gary Roark
Mayor
Seneca, MO 64865
417.776.2723