



Milano & Grunloh Engineers, LLC

engi neeri ng | surveyi ng

OWNERS

LEE R. BECKMAN, P.E., P.L.S.
DOUGLAS C. GRUNLOH, P.L.S.

LICENSEES

MICHAEL A. TAPPENDORF, P.E.

Professional Services Brochure Land Development



114 West Washington Avenue | P.O. Box 897 | Effingham, Illinois 62401
Phone: (217) 347-7262 | Email: mgengineers@mgengineers.com

Visit our website at www.mgengineers.com!

Table of Contents

- Corporate Overview
- Project Management Team
- Services Offered
- Statement of Qualifications
- IDOT Certifications
- Project Portfolio



**Milano & Grunloh
Engineers, LLC**
engi neeri ng | surveyi ng

Corporate Overview

Milano & Grunloh Engineers, LLC, a locally owned and operated consulting company, has provided complete civil engineering, construction, and surveying services to Effingham County and the surrounding areas since 1979. The Company has 25+ full time employees consisting of engineers, surveyors, technicians, computer operators and clerical assistants with over 80 years of combined municipal experience.

Milano & Grunloh Engineers, LLC provides Illinois Professional Engineering and Land Surveying services, as well as complete Civil, Municipal, Transportation, and Environmental Engineering services utilizing state of the art computer programs and GPS.

Our greatest asset is our ability to work closely with our clients throughout the project and to develop long term relationships with those clients. We take pride in being a local company employing local people while working together with our clients as a team.



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

Project Management Team

Lee R. Beckman, P.E., P.L.S.

Owner / Project Manager

Lee, a licensed Professional Engineer and Professional Land Surveyor, began his career with Milano & Grunloh Engineers, LLC in 1999, and became a partner in 2002. He is a graduate from the University of Illinois with a Bachelor of Science Degree in Civil Engineering. He is a member and past President of the Ambraw Chapter of the ISPE, and a member of the National Trail Chapter of the IPLSA. Lee has extensive experience in sewer system design, water system design, municipal engineering and project administration.

Douglas C. Grunloh, P.L.S.

Owner / Project Manager

Doug, a Professional Land Surveyor, began his career with Milano & Grunloh Engineers, LLC in 1992 and became a partner in 2014. He is a graduate from the Southern Illinois University at Carbondale with a Bachelor of Science Degree in Industrial Technology. He is a member and past President of the National Trail Chapter of the IPLSA and a member of the NSPE. Doug is a proficient CAD operator and has extensive experience in boundary surveys, construction staking, material testing, topographic surveys and ALTA surveys. He handles the day-to-day operation of the field survey crew, as well as, construction staking and material testing.



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

Michael A. Tappendorf, P.E.

Project Manager / Project Engineer

Michael, a licensed Professional Engineer, began his career with Milano & Grunloh Engineers, LLC in 2012. He is a graduate from the Southern Illinois University at Edwardsville with a Bachelor of Science Degree in Civil Engineering. Michael is proficient in site design, drainage calculations, stormwater pollution prevention planning, water and sewer permitting, as well as, street and sidewalk design and regulations set forth by the American Disabilities Act and Public Right-of-Way Accessibility Guidelines.



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

Services Offered

Surveying & Mapping Services

- Aerial Photography Control Surveys
- Boundary/ALTA Surveys
- Land Surveying
- Right-of-Way Location & Staking
- Site Development Feasibility Studies
- Site Planning & Design
- Subdivision Planning & Design
- Surface Water Studies
- Topography/DTM Survey
- Global Positioning Surveying

Construction Engineering Services

- Concrete Cylinder Testing
- Construction Inspection
- Construction Management
- Construction Surveying
- Quality Control/Quality Assurance
- Quantity and Cost Estimating
- Record Drawing and Final Construction Certifications
- Soil Moisture & Density Testing (Nuclear)
- Standard & Modified Proctor Laboratory Determination



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Drinking Water Resource Services

- Certified Operator
- Distribution System Analysis & Design
- Elevated Water Storage Facility
- Rate Studies
- Storm Drainage Design
- Water Distribution System Analysis & Design
- Water Supply and Treatment Facilities Design
- Water System Master Planning
- Wellhead Protection Assistance

Wastewater Treatment Services

- Chlorine Exemption
- Facility Planning
- Infiltration/Inflow Studies
- Master Planning
- NPDES Permit Assistance
- Pre-Treatment Inspection
- Rate Studies
- Sewer Rehabilitation Studies
- Sludge Disposal Permit Preparation
- Wastewater Collection & Planning
- Wastewater Plant Capacity Studies
- Wastewater Treatment System Design



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Transportation Services

- Location Studies
- Railroad Engineering
- Route Surveying
- Stormwater Drainage Design
- Streetscape Design
- Streets and Road Design
- Traffic Signal Design
- Traffic Signal Warrant Studies
- Transportation Impact Studies
- Utility Engineering

Funding & Grant Administration Services

- Department of Commerce & Economic Opportunity (DCEO)
- Department of Natural Resources (DNR) Grants
- Economic Development Administration (EDA)
- Financial Application Preparation
- Grant Application Preparation
- IDOT Grant Administration
- Planning Grants
- State Revolving Loan Fund
- U.S. Department of Agriculture (USDA) Rural Development



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Statement of Qualifications

- Over 80 Years of Municipal Experience
- 25+ Personnel Technical Staff
- Centrally Located in Effingham, Illinois
- Licensed Professional Management
 - Lee R. Beckman, P.E., P.L.S
 - Douglas C. Grunloh, P.L.S.
 - Michael A. Tappendorf, P.E.
- Complete Computer Automation
 - AutoCAD, Civil 3D Design, Word, Excel, EPANet
 - Provide the Client with Output in Digital Format
- Experience working with multiple Federal & State Agencies
- Successfully secured over \$54.2 million in DCEO Grant Funds



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

IDOT Certifications

- Portland Cement Concrete Level I
- Portland Cement Concrete Level II
- Mixture Aggregate Technician
- Standard Earth Density Course
- Hot Mix Asphalt Level I
- Hot Mix Asphalt Level II
- Hot Mix Asphalt Level III
- Documentation of Contract Quantities
- ICORS Training
- S33 Field Testing and Inspection Course
- Fundamentals of Storm Water Pollution and Erosion and Sediment Control
- OSHA 10-Hr. General Industry Training Course
- OSHA 30-Hr. General Industry Training Course
- IDOT Certified In-House Testing Lab



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

Project Portfolio



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng



**Milano & Grunloh
Engineers, LLC**

engineering | surveying

HSHS St. Anthony's Health Center



In late 2018, HSHS St. Anthony Memorial Hospital in Effingham completed construction on the new two-story Effingham Medical Center with each story being 23,169 square feet. Milano & Grunloh Engineers, LLC provided surveying, civil design, site plan, on-site construction staking, storm water pollution prevention planning and inspection, and material testing for this project.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Midland States Bank



The New Midland States Bank Corporate Office is located in the Network Centre Business and Technology Park in Effingham, Illinois. Milano & Grunloh Engineers performed the ALTA and topographic surveys for the development phase. Milano & Grunloh worked closely with the Contractor, AKRA Builders and Midland States Bank on the site design, consisting of staking and inspection of the project.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Midland State Bank Downtown Effingham



The new Midland States Bank Downtown Effingham Branch located at 110 South Fifth Street was completed in the Fall of 2015. Milano & Grunloh Engineers, LLC worked with Pure Architecture and furnished the Topographic survey, re-platted lots, and prepared the site plan for the new 5,000 square foot facility including 44 parking spaces.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Patterson Technology



The new Patterson Technology Center is located in the Network Centre Business and Technology Park in Effingham, Illinois. Milano & Grunloh performed the ALTA survey and topographic survey for the development site. The plans included furnishing surveys on electronic media for design, preparation plans for infrastructure improvements, furnishing construction staking, construction inspection and material testing.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Roy Schmidt Honda



Roy Schmidt Honda, a 34,788 square foot dealership opened in late 2014. Milano & Grunloh Engineers participated in this project along with Agracel, Inc. and AKRA Builders. Milano & Grunloh provided the site plan, construction staking, ALTA survey and material testing for the dealership. In addition, Milano & Grunloh Engineers provided the design and inspection for West Fayette Avenue and Lange Avenue for further development in the area.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Richard E. Workman Sports & Wellness Complex



The Richard E. Workman Sports & Wellness Complex is located on the North end of the City of Effingham. The complex recently opened and will be a great asset to the community. Milano & Grunloh Engineers, LLC furnished the topographic and boundary survey, along with the site plan, detention calculation, on-site construction staking, material testing, and pool certification.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

North Pointe Estates Subdivision & Storm Sewer



North Pointe Estates is a residential subdivision located on the North side of Dieterich, Illinois. North Pointe consists of approximately 100 residential lots, which is laid out on approximately 53 acres. Milano & Grunloh Engineers completed the survey work to assist the maximizing the lots on the amount of property available while creating a very pleasing environment for the residents of the subdivision. Milano & Grunloh Engineers also completed all necessary work to complete the street, sanitary sewer, water, and storm sewer design.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Historic Hills Subdivision



Historic Hills Subdivision is located on the Northeast side of Effingham, Illinois. Milano & Grunloh Engineers worked with Agracel, Inc. to develop the Harley Barn, Tuscan Hills Winery and a 32 Lot Residential Subdivision. Milano & Grunloh Engineers provided the topographic surveys, site design and infrastructure design.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

City of Arcola Safe Routes to School



The City of Arcola recently completed a Safe Routes to School project in 2014, which consisted of sidewalk removal and replacement, staff parking, and a drop lane for students and staff. This project increased the safety of students and staff members by allowing them to have a safe, direct route to the school. Milano & Grunloh Engineers assisted with all aspects of the project, which included acquiring funding, surveying, design and construction inspection.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Village of Dieterich Main & Virginia Street Enhancements



The Village of Dieterich recently replaced deteriorated non-ADA sidewalks along Main Street and Virginia Street which had become a hazard to pedestrian traffic. The new decorative ADA-compliant sidewalks feature a red stamped concrete treatment, curbs and gutters, and decorative lighting. Not only did the sidewalk replacement reduce the hazards to pedestrian traffic, it enhanced the beauty of the downtown business district.

The Village utilized Illinois Department of Transportation ITEP Grant funds, and Village funds to complete the project. Milano & Grunloh Engineers, LLC provided Design Engineering, Grant Assistance, and Construction Inspection for the project.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Fayette Water Company Pump Station to Pinnacle Foods



Fayette Water Company completed a pump station, piping, etc. to provide Pinnacle Foods in St. Elmo a 50 million dollar expansion requiring an additional 150,000 gallons of water per day.

Milano & Grunloh Engineers completed the funding application, preliminary design engineering and construction inspection for the project.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

City of Newton Downtown Sidewalk Beautification



The City of Newton secured an approximately \$1 million ITEP Grant through the Illinois Department of Transportation. The City leveraged this grant with \$333,000 in City Funds to construct handicap ramps, detectable warnings, replacement of sidewalks which have excessive cross and longitudinal slope, removal of “double curbs” adjacent to existing sidewalks and other pedestrian friendly amenities. In addition, lighting was constructed throughout the project which will aid pedestrian’s visibility at night. The project was constructed around the Square and along the west side of Van Buren Street to Water Street.

Milano & Grunloh Engineers, LLC helped the City of Newton secure the ITEP Funding and completed all engineering for the project. Since the project is located along busy State Highways, it is almost certain to “catch the eye” of some travelers and encourage them to stop and explore the City of Newton and thereby provide economic benefits to the area by increasing local tourism. With the assistance of Milano & Grunloh Engineers, LLC, the City of Newton has successfully secured three ITEP Grants totaling over \$3 million.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Outer Belt West South to U.S. Route 40



Beck's Superior Hybrids is the largest family-owned retail seed company in the United States. Beck's recently opened a new facility in Effingham, Illinois. The facility in Effingham will be used as a distribution center, providing additional agronomic support, hosting field day events, as well as conducting practical farm research studies. Milano & Grunloh Engineers, LLC participated in this project by providing the site plan, construction staking, material testing, and the ALTA survey. In addition, Milano & Grunloh provided the design and construction engineering for the water, sewer, and street extension to serve the Beck's facility.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Village of Dieterich Sanitary Sewer Improvements



The Village of Dieterich is a growing village in Central Illinois. Due to growth and age, the Village's facultative lagoon was not providing adequate treatment. The Village evaluated an aerated lagoon and an activated sludge plant as alternatives. Due to maintenance and capital cost, the Village selected an aerated lagoon to provide sewage treatment for the Village into the future. Milano & Grunloh Engineers, LLC provided the design, permitting, and construction guidance, resident engineering and inspection for this project.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

EJ Water and Fayette Water Company Pump Station



Fayette Water Company provides water to approximately 2,100 customers and four municipalities with 1,050 miles of watermain, system interconnects and a .75 MGD water treatment plant. Milano & Grunloh Engineers has provided all design and inspection for all of the Water Treatment Plant additions and improvements. Most recently, they have completed a \$1.1 million project consisting of a pump station, piping, etc. to provide Pinnacle Foods in St. Elmo a \$50 million expansion requiring an additional 150,000 gallons of water per day.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Village of St. Peter Lift Station and Sewer Improvements



The Village of St. Peter was experiencing large of amounts of infiltration, sewer backups, and a failing lift station that needed replaced. The Village secured a \$44,500 design grant, \$182,000 in USDA Rural Development funding, and a \$350,000 DCEO construction grant. The project replaced the failing lift station and 2,500 lineal feet of sewer main.

Milano & Grunloh Engineers, LLC helped secure the funding, completed design, and provide construction inspection. The project was completed in 2013.



**Milano & Grunloh
Engineers, LLC**

engi neeri ng | surveyi ng

Town of Mason Sewer Lagoon



The Town of Mason's Sewer Lagoon and Lift Station was over 30 years old and was in dire need of being rehabilitated. Milano & Grunloh assisted the Town with securing a DCEO design grant and completed bid specifications, plans and permits for the projects. The Town secured leverage money from Rural Development and secured a DCEO construction grant with assistance from Milano & Grunloh Engineers.