

# SCHEFLOW ENGINEERS

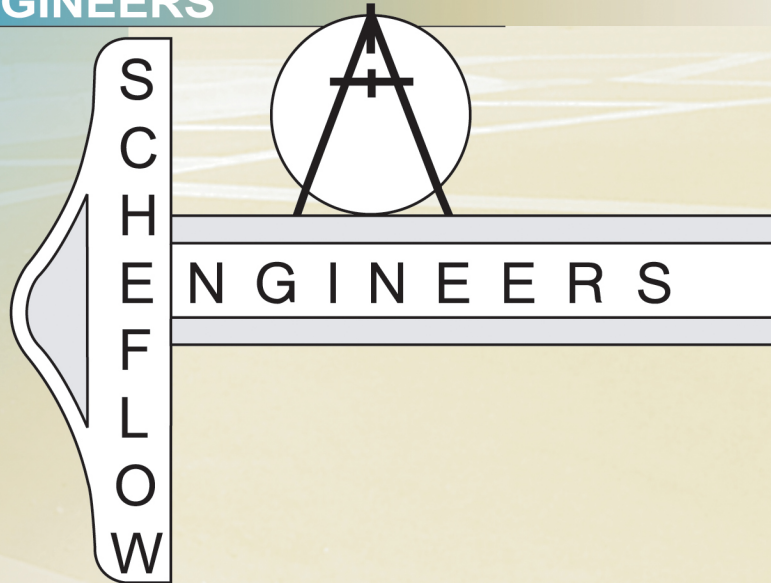
OVER 40 YEARS OF SERVICE, INTEGRITY  
AND DEDICATION TO CLIENTS.

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# SCHEFLOW ENGINEERS



Schefflow Engineers, A Professional Corporation, was first organized in 1967 as Everett Schefflow Engineers to provide civil and sanitary engineering services for municipal and private clients. In 1993, the Company reorganized to its present name. The Company has always been located in Elgin, Illinois. The Firm provides a complete range of in-house services within these fields of engineering and, in addition, regularly provides structural, electrical engineering, architectural, environmental and surveying services.

The Company is currently the Village Engineer for the Villages of Algonquin and Greenwood, Illinois and the City Engineer for the City of Genoa, Illinois. Duties as the appointed engineer include:

- A) Advising municipalities on engineering and planning matters.
- B) Reviewing plans for residential, commercial and industrial developments within the municipalities and making recommendations. Providing field inspection services during the installation of the public improvements.
- C) Complete engineering services for various public improvements.

In addition to these municipalities Schefflow Engineers has provided engineering services to the City of Elgin, the Village of West Dundee, the Village of Prairie Grove, the Fox River Water Reclamation District and other communities.

The Firm also provides engineering services to businesses, industries and land developers. Industrial clients have included Safety-Kleen Corporation, Custom Aluminum Products, Sherman Hospital, Centerville Properties, O & S Development and Elgin Die Mold. These services include industrial wastewater treatment and site development.

Also, a number of residential and commercial subdivisions designed by Schefflow Engineers are located in Crystal Lake, Cary, Huntley, Streamwood, Hampshire, McHenry, Lake and Kane Counties and Elkhorn, Wisconsin.

# SCHEFFLOW ENGINEERS



# TRANSPORTATION & STORM SYSTEMS

Scheflow Engineers is experienced in all aspects of roadway and stormwater management design. Listed below is a summary of the many types of work performed by our office in this field of civil engineering:

IDOT - Motor Fuel Tax (MFT) Maintenance and Construction Projects

FAU Project Development Reports

Intersection Design Studies

State Highway Intersection and Widening Projects

Urban Reconstruction

Pavement Rehabilitation and Reconstruction Projects

Storm Sewer System Design and Upgrades

Stormwater Detention Facilities



## **Genoa Street Improvement Program**

**MFT Roadway Re-construction Project in Northeast Section of the City of Genoa Upgrading Stormwater Drainage System & Providing Curb and Gutter, Sidewalk and New Pavement  
Genoa, Illinois**

## **Algonquin Hills Phase 3 Street Improvements**

**Pavement Re-construction & Utility Upgrades in  
Old-Town Section of the Village of Algonquin  
Algonquin, Illinois**



# TRANSPORTATION & STORM SYSTEMS



## WASTEWATER TREATMENT AND COLLECTION SYSTEMS

Through the years Scheflow Engineers has specialized in all aspects of sanitary engineering. From the design of single residential lot septic systems, to multi-million dollar wastewater treatment facilities, our firm has provided our many clients with quality engineering at affordable costs. Examples of the many and numerous sanitary projects designed by our office during our years in business include:

Village of Lakewood Sanitary Sewer System (Original Town) Replacement

City of Genoa Wastewater Treatment Plant

Village of Algonquin Wastewater Treatment Plant Phase 2-5

Village of West Dundee - Main Pump Station

Village of Algonquin - Far West Interceptor Sewer

City of Crystal Lake - Rt. 176 West Interceptor Sewer

Village of Algonquin - Woods Creek, Braewood, Riverwoods and Grand Reserve Pump Stations

Jackson Creek Subdivision Collection System and Off-Site Connection Sewer, Elkhorn, WI

City of Genoa - Excess Flow Facility



**City of Genoa Wastewater Treatment Facility**

Genoa, Illinois

# WASTEWATER ENGINEERING



# WASTEWATER TREATMENT AND COLLECTION SYSTEMS

**Woods Creek Wastewater Pump Station**  
Algonquin, Illinois



**Grand Reserve Wastewater Pump Station**  
Algonquin, Illinois

**Village of Algonquin Wastewater  
Treatment Facility**  
Algonquin, Illinois



WASTEWATER  
ENGINEERING



# WATER SYSTEM ENGINEERING

Schefflow Engineers has provided extensive water system engineering services to many municipal and private clients throughout the northern Illinois and southern Wisconsin area. This work has ranged from initial groundwater exploration and studies for appropriate well locations and installations, to complete designs of distribution systems. Various components of water systems designed by our firm include the following:

Shallow Wells - 200 to 1200 GPM

Deep Wells - 1000 to 1500 GPM

Elevated Tanks

Pressure Filter Plants for Iron Removal

Ion Exchange for Softening

Well Houses for Chemical Feed & Controls

Pressure Booster and Reducing Stations

Standpipes

Distribution Systems

Fire Protection Systems



**Huntington Road Water Booster Station  
and Standpipe**

Algonquin, Illinois

**Pressure Booster Station**

Carpentersville, Illinois



# WATER SYSTEM ENGINEERING



# WATER SYSTEM ENGINEERING

**Well House No. 15**  
Algonquin, Illinois



**Hanson Road 400,000 Gallon Elevated  
Water Storage Tank**  
Algonquin, Illinois

**Water Treatment Plant No. 1**  
Iron Removal Facility Servicing the  
East Side of Algonquin  
Algonquin, Illinois



# WATER SYSTEM ENGINEERING



# SUBDIVISIONS & SITE PLAN ENGINEERING

A number of urban and rural residential subdivisions and business parks in the surrounding area have been designed by Scheflow Engineers. These projects range from multi-million dollar developments that include complete utility systems and urban pavement design to small country subdivisions on well and septic systems.

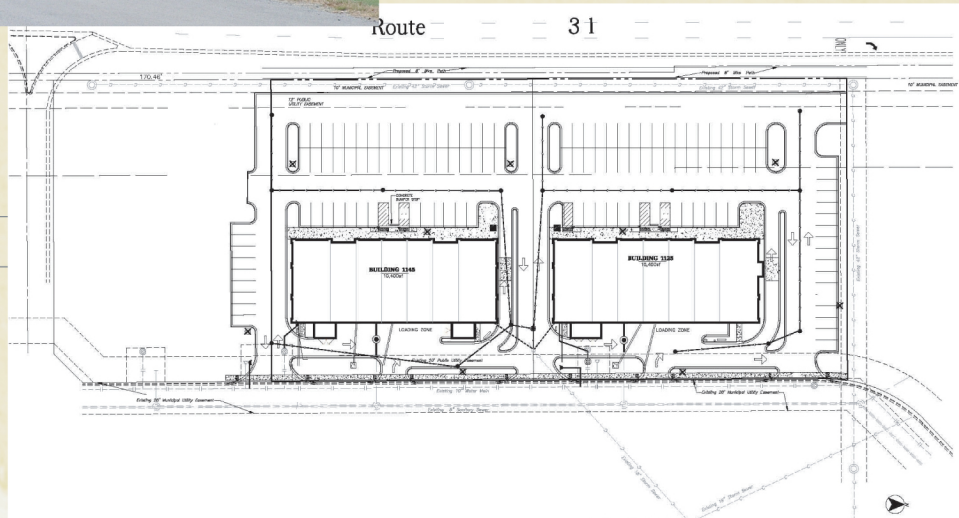
Our firm is experienced in providing site plan engineering, having prepared individual site engineering plans for locations throughout the Chicagoland, Rockford and DeKalb areas. Following is a list of some of the many projects engineered by our office:

Harvest Glen - Lake County	Jackson Creek - Elkhorn, WI
Kingsgate - Crystal Lake	Oak Creek - Genoa
Biscayne Subdivision - McHenry	Bryn Mawr - Crystal Lake
Harmony Stone - McHenry County	Bernat Industrial Park - Huntley
Northwood Acres - Cary	Safety-Kleen Campus - Elgin
Country Oaks - Johnsburg	Sunrise Ridge - Wonder Lake



**Harvest Glen Subdivision**  
Rural Roadway Throughout Subdivision  
Lake County, Illinois

**Central Park Place  
Retail Center**  
2 Acre Commerical Development  
Crystal Lake, Illinois



# SUBDIVISIONS & SITE PLANS



# SUBDIVISIONS & SITE PLAN ENGINEERING

## **Harvest Glen Subdivision** Detention Basin for Rural Subdivision Lake County, Illinois



## **Harmony Stone Subdivision** 57 Lot - 1 Acre Rural Subdivision McHenry County, Illinois

# SUBDIVISIONS & SITE PLANS



## SCHOOLS & PARKS

Scheflow Engineers has had the opportunity to be involved in the design and construction of a number of area park and school sites. Our work has ranged from the preliminary layout of park sites and recreational areas to the final design of infrastructures and site amenities. Following is a list of projects including our involvement:

- Presidential Park - Algonquin - Total Design and Development
- Dundee-Crown High School - Tennis Court Complex & Drainage Design
- Jacobs High School - Parking Lot, Tennis Courts, Drainage and Detention Design
- Citizen Park - Genoa - Improvements Design
- Original Algonquin Middle School - Algonquin - Detention and Utility Design
- Cornish Park - Algonquin - Site Engineering
- Spella Park - Algonquin - Site Engineering
- Harvest Glen, Lake County - Park Amenities Design



**Harvest Glen Subdivision**  
Community Park Along Detention Basin  
Lake County, Illinois

**Cornish Park**  
Algonquin, Illinois



# SCHOOLS AND PARKS



## SCHOOLS & PARKS

**Original Algonquin Middle School**  
Algonquin, Illinois



**Dundee-Crown High School  
Tennis Courts**  
Carpentersville, Illinois



**Ted Spella Park Phase 1**  
Including Play Lot, Basketball Court  
Tennis Courts, Sled Hill and  
Pedestrian Bridge  
Algonquin, Illinois

SCHOOL  
PARKS



## BRIDGES

Through the years Scheflow Engineers has been involved in the design and installation of a number of various type bridges in the area, ranging from pedestrian crossings, rural and driveway structures to full-scale roadway bridges. A list of these bridge projects by Scheflow Engineers is as follows:

Edgewood Drive Rat Creek Bridge Expansion - Algonquin

Harrison Street Bridge - Algonquin

Hoxie Court Bridge - Elgin

Kishwaukee Pedestrian Bridge - Genoa

Bowes Creek Bridge - Elgin

Doherty Bridge - Twin Lakes, Wisconsin



**Pedestrian Bridge over South Branch  
Kishwaukee River**  
Genoa, Illinois



**Bowes Creek Boulevard Bridge**

Roadway Bridge Spanning Railroad to Service Residential Subdivision and Golf Course  
Elgin, Illinois

# BRIDGES



## ARCHITECTURAL WORK

Scheflow Engineers has also provided architectural services to various clients and the results have been quite successful, and satisfying and economical to our clients. Projects have included:

Adams Industrial Building - Richmond  
State Bank of the Lakes - Spring Grove  
Prairie Grove Village Hall - Prairie Grove  
Genoa City Hall Additions - Genoa  
Spring Grove Village Hall Additions - Spring Grove



**Prairie Grove Municipal Building**  
Prairie Grove, Illinois

**Genoa City Hall Garage Addition**  
Genoa, Illinois



**Spring Grove Municipal Centre**  
Spring Grove, Illinois

ARCHITECTURAL  
WORK



# SCHEFLOW ENGINEERS

## FRANK C. CUDA, P.E.,

Registered in the states of Illinois and Wisconsin.

Frank's entry into the engineering field began during the summer between his junior and senior year of college when he worked with IDOT as a field assistant engineer on the reconstruction of Route 176 between Woodstock and Marengo. Immediately after graduation from Michigan State, he began work for Baxter & Woodman Engineering, Crystal Lake, Illinois, spending most time in their street and roadway division, performing field work, inspection and design. In 1974, he accepted the offer to join McHenry Sand & Gravel/Lakeland Construction as an engineer and estimator. He maintained this position until 1983, gaining extensive experience and knowledge in all aspects of construction, within both the public and private sector. It was also during this time period that Frank obtained his professional engineers license in both Illinois and Wisconsin, and also a Masters Degree in Business from Northwestern University.

When Lakeland Construction closed doors in 1983, Frank returned to the consulting engineering field by taking a position with Everett Scheflow Engineers in Elgin, Illinois. Through the years with this firm, Frank learned the aspects involved in representing municipalities as appointed engineer, along with assisting these municipalities through his knowledge and experience in the construction field. In 1993, he became owner of the company, which officially became Scheflow Engineers. He has maintained his professional engineer's licenses in both Illinois and Wisconsin, and is a member of Kane County Water Association, American Council of Engineers Companies, American Society of Civil Engineers and Water Environment Federation.

He is a lifelong resident of McHenry, Illinois, where he has been continually active in numerous community activities.

**Education:** 4 years, Michigan State University  
Graduated with B.S. degree in Civil Engineering.  
M.B.A. degree from Northwestern University

### Professional Experience:

- 1972 - 1974: Baxter and Woodman Engineers, Crystal Lake, Illinois - design and construction engineer for street and highway projects.
- 1974 - 1984: Lakeland Construction Company, McHenry, Illinois - as construction engineer and estimator.
- 1984 - 1993: Everett Scheflow Engineers - primary responsibilities included design of street and highway projects, project inspection and construction engineering.
- 1993 - Date: President of Scheflow Engineers, A Professional Corporation.



# SCHEFLOW ENGINEERS



## ESTHER K. MARKWART, DESIGN ENGINEER

**Education:** 1 year, Triton College, River Grove, Illinois  
3 years, University of Illinois, Urbana-Champaign, Illinois  
Graduated with BSAS degree in architecture.

**License:** EIT

### Professional Experience:

1980 - 1987: Sundial Builders, St. Charles, Illinois - Draftsperson and Carpenter.  
1985 - 1987: Dixon Associates, AIA Architects, St. Charles, Illinois - Draftsperson on a part-time basis.  
1988 - Date: Schefflow Engineers - Design Engineer and Project Coordinator.

## RICHARD S. WYGRZYN, FIELD ENGINEER

**Education:** 4 years Washburn Trade School (Pipefitter), Graduated 1971

### Professional Experience:

1968 - 1981: C.H.C. Corporation, Bellwood, IL  
1981 - 2003: Service Systems Mechanical, McHenry, IL - Founder & President  
2003 - Date: Schefflow Engineers - Field Engineer

## PATRICK C. SHARKEY, DESIGN ENGINEER

**Education:** 2 years, Elgin Community College, Elgin  
3 years, University of Illinois, Urbana-Champaign  
Graduated with B.S. Degree in General Engineering

**License:** EIT

### Professional Experience:

1999 - Date: Schefflow Engineers - Design Engineer and CADD Technician

## GABRIEL K. FOLLIS, CADD TECHNICIAN

**Education:** 1 year, University of Illinois at Chicago  
3 years, Elgin Community College, Elgin  
Associates degree in Science  
Graphic Design Software Certificate, Level 1 & 2

### Professional Experience:

2001-2002: Walker Parking Consultants - Draftsperson, Model Builder  
2003 - Date: Schefflow Engineers - CADD Technician



## **40 Years of Service and Experience**

**Wastewater Treatment and Collection Systems**

**Topographical Surveying and Stakeout**

**Subdivision Design and Engineering**

**Water System Engineering**

**Construction Management**

**Stormwater Management**

**Site Plan Engineering**

**Architectural Work**

**School and Parks**

**Transportation**

**Bridges**



**Illinois Route 72 and Heritage Trail Intersection**  
**Entrance to New Riverbend Subdivision**  
Genoa, Illinois