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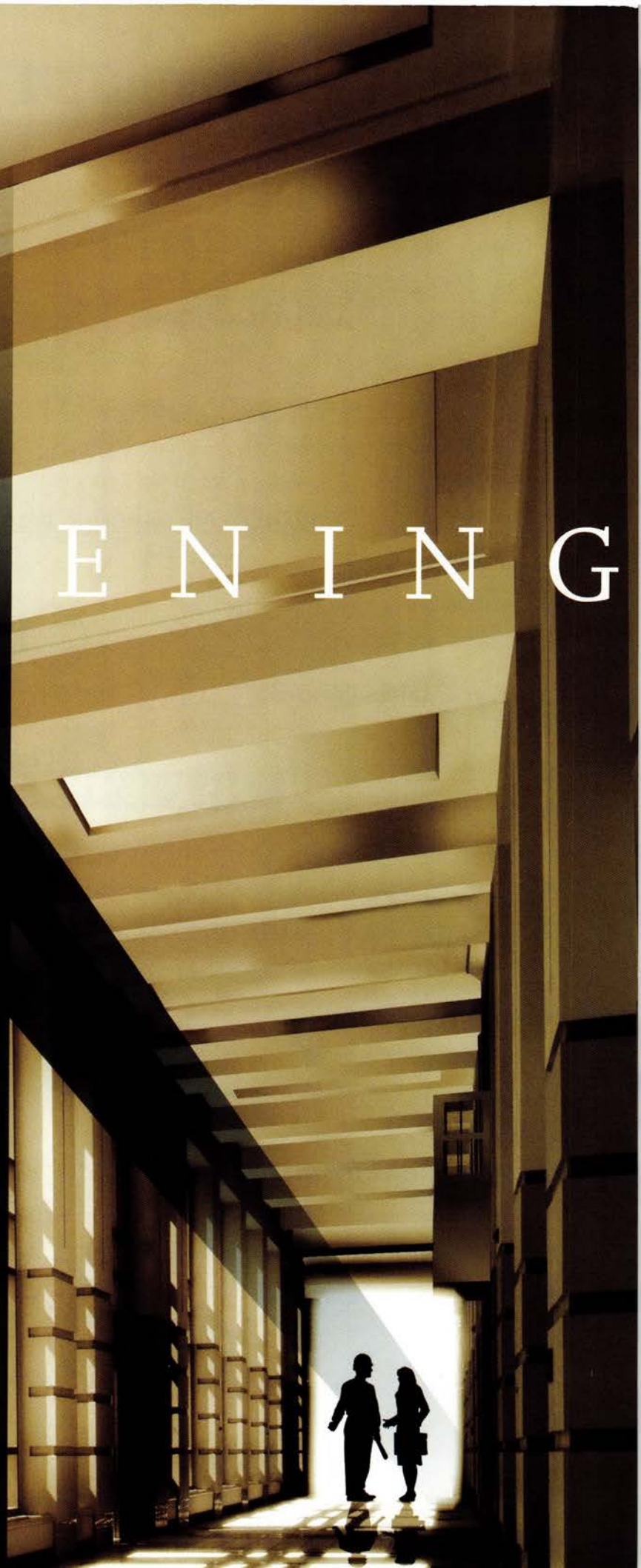
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FEATURES



Honor Awards These outbuildings by David Salmela are part of this year's round-up of award-winning designs, by Eric Kudalis **Page 24**



Travelogue The backroads of Tuscany offer glimpses into centuries-old traditions, by Brad and Ruth Christian **Page 42**



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Street scenes Superior Street in Duluth is rich in architectural history, by David Anger **Page 18**

Sod living Once common on the wind-swept plains of the Midwest, sod houses are a nearly washed-away chapter in American architectural history, by Camille LeFevre **Page 22**

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The first 25



PHILLIP MACMILLAN JAMES

St. John's the Evangelist Catholic Church, designed in the 1960s by Rafferty Rafferty Tollefson Architects, is this year's recipient of AIA Minnesota's 25 Year Award. The church

represents the era's latest thinking in liturgical design by creating an open plan that inspires community involvement. Unlike many newer churches, which often are set back from the com-

munity on large lots and surrounded by parking lots, St. John's, seating about 700, is slipped tightly into the neighborhood. Houses surround the church on three sides. The interior, filled



with light, further emphasizes community involvement. The narthex is the hub of the church, which leads to the nave, chapel, and other support facilities.

Many buildings deteriorate over time because of flimsy materials. Not here, though. The architects chose materials that are both durable and beautiful, and applied them simply and elegantly. Walls, inside and out, are brick-masonry, floors are quarry tile and ceilings in the church and chapel are cypress board, while all millwork is dark oak.

It's in the details



PETER AARON/ESTO

Though LaSalle Plaza on Hennepin Avenue in downtown Minneapolis is a large-scale, full-block project that makes a grand gesture to Hennepin Avenue, it also has its quiet side. It's that quiet, subtle side to the interior railings that won this year's AIA Minnesota Divine Detail award. The railings repeat the curved form used in the overall project to express water. A

stainless-steel blade floats within the center of each rail, signifying the intersection of Hennepin Avenue to the city's grid. A cherry top lends warmth in contrast to the metal.

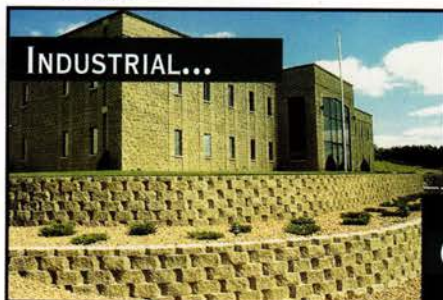
Art on CD



ARTISTAVENUE allows art connoisseurs to survey more than 130 artists and their works on CD-ROM. With nearly 800 images representing small minimal prints to a canvas originally housed in Moscow's Tretyakov Gallery, this is the first electronic catalog geared toward the purchase of art. Represented artists are from around the world, from Beijing to Grand Rapids, Mich. The CD is published by K Street Systems, Denver.

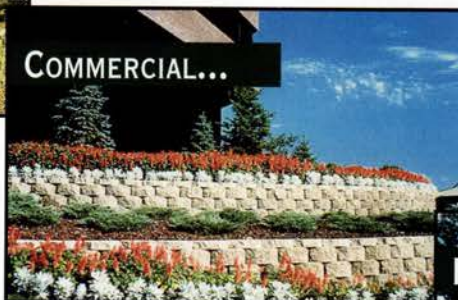


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Eco-design charette

With the environment all the buzz in the design industry today, Minneapolis's architectural community is also getting in on the act. Approximately 90 architects and related design professionals, students, members of the Phillips neighborhood, children and interested participants gathered this fall to brainstorm ideas for a new Eco-Industrial Park for the Green Institute. This nonprofit organization is devoted to creating community-based models to protect the natural and urban environments through education and sustainable economic development.

The Eco-Industrial Park, to be located just east of Hiawatha Avenue between 28th and 29th streets, will include a business incubator for environmentally responsible businesses, and environmental-education center, materials-exchange and reuse center, and offices for nonprofit environmental advocacy groups. The Eco-Industrial Park is intended to create jobs through appropriate technology, solid-waste reduction and energy conservation.

Proposals touched on various solutions. Some suggested restoring the urban fabric of site and weaving the new facility into the existing urban grid, while others viewed the site as a distinct feature within the Phillips neighborhood. Suggestions included underground construction to leave the site as a community park; a Habitat for Humanity eco-village of small-scale industrial, commercial and residential structures; and a series of interior and exterior rooms that could expand or contract based on needs.

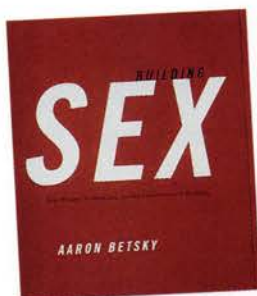
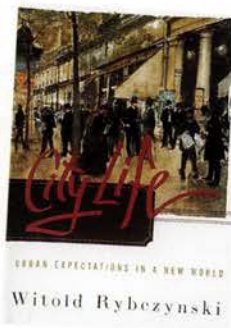
The environmental design charette, one of 19 occurring the same weekend in early October throughout the country, was sponsored by the national AIA Committee on the Environment. Local sponsors included the Green Institute, the Minneapolis chapter of C.O.T.E., and the College of Architecture and Landscape Architecture at the University of Minnesota.



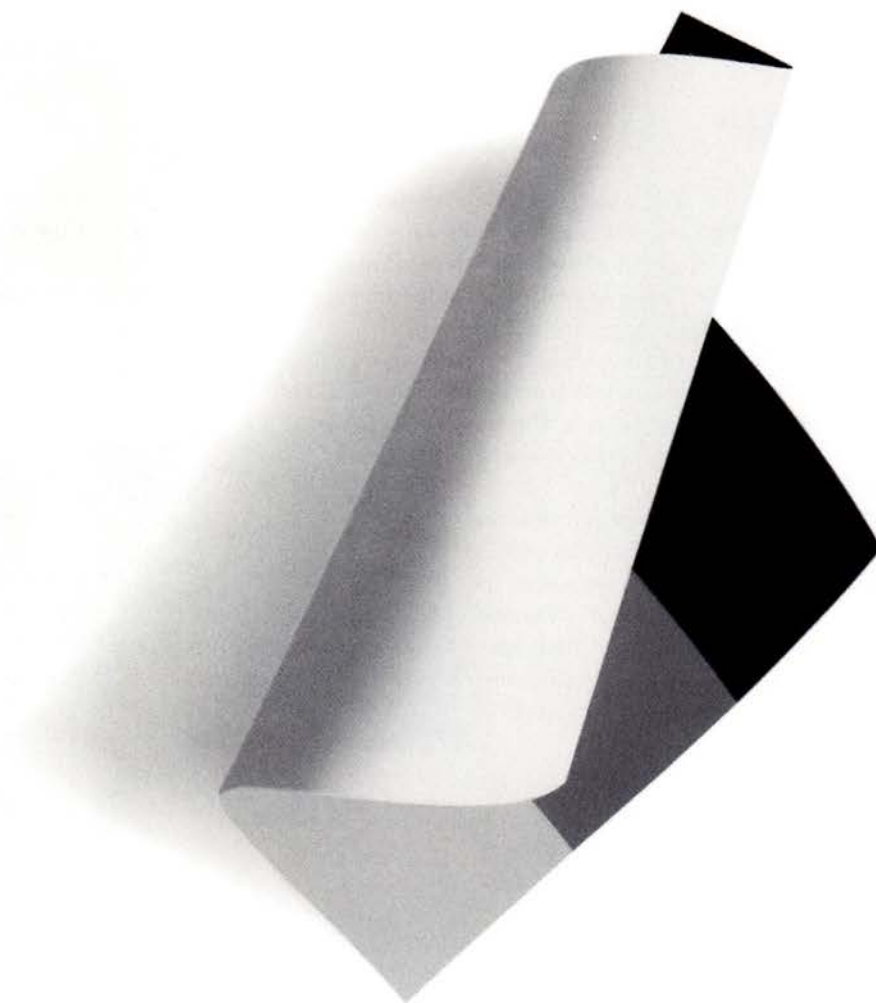
Environmentally concerned citizens and designers gathered for a weekend charette (above) to devise schemes for an Eco-Industrial Park (left) east of Hiawatha Avenue.

Hot off the presses

In *City Life: Urban Expectations in a New World*, author Witold Rybczynski says "Our cities are definitely not like Paris. But then what are they like? And how did they get that way?" Rybczynski explores these questions by tracing how American cities developed. "This is a book about cities as they are, not as they might be. It's also about our cities' evolution, for I'm convinced that our undistinguished record of the last 50 years of building cities and towns stems at least in part from a willful ignorance of our urban past," the author writes. Stretching across the country from New York, Philadelphia and Boston, to Chicago, Los Angeles and San Francisco, the book discusses how cities acquired their unique identities and reflect American concerns and lifestyles. Rybczynski, who has written numerous architecturally related books and magazine articles, is a professor of urbanism at the University of Pennsylvania. *City Life* is published by Charles Scribner's Sons, New York.



Building Sex: Men, Women, Architecture, and the Construction of Sexuality, by Aaron Betsky, traces the history of architecture as a male-dominated endeavor. Betsky writes, "We live in a strangely and unequally divided world. Our man-made world was made by men. Men founded our cities and designed the buildings in them. Men decided what the world we travel through every day was going to look like, and men decided what the streets would look like. Men planned, designed, built, and ran the towns, suburbs and cities we live in. Where were women during all this? They were the ones who made this world livable. They made the homes comfortable and the streets places of activity. Women brought up the children and cared for the old. They made the grand plans of men real within a framework that contained and imprisoned them." Betsky is curator of architecture and design at the San Francisco Museum of Modern Art. *Building Sex* is published by William Morrow & Co., Inc., New York.



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Confrontation at the Bridge, 1975

**Winter Book Marks
Carolyn Ruff Gallery
Minneapolis
Jan. 13–Feb. 17**



Urn, T. Rose, 1993

Books come alive with this new exhibit featuring artists Siah Armajani, Virginia Bradley and Paul Clifford in collaboration, Diane Katsiaficas and Thomas Rose. With a literary bent, they present small works which are based on books, utilize books or are books.

For more information, call (612) 338-8052.

**Winter Salon
Mixed Media By Gallery Artists
Circa Gallery
Minneapolis
Through January**

Circa's salons, initiated three years ago, offer an opportunity for the gallery's represented artists to display their work in an informal atmosphere that encourages interaction and appreciation of the different media explored. The regionally based artists work within a diverse range, from furniture to ceramic, print, and more.

For additional information about the featured artists, call Circa at (612) 332-2386.



*Outside Time, oil on wood panel, 1995,
Nancy McCallum*

**Prairie School Collaborators:
Frank Lloyd Wright and George Mann
Niedecken
Milwaukee Art Museum
Through Feb. 4, 1996**

This exhibit examines the working relationship between Wright and interior designer Niedecken, who collaborated with Wright from 1904 to 1918. Niedecken created custom furniture, lighting fixtures, rugs and murals that harmonized with Wright's Prairie-style houses. The exhibit examines the design process the two employed in five commissions spanning a decade, with 75 drawings for furniture, rugs, murals and interior decoration, along with actual objects fabricated from these designs.

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*Card Table and Chair,
George M. Niedecken*

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We Will Be Back: Oklahoma City Rebuilds
National Building Museum
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Through March 17

In the aftermath of the April 19 bombing of the Alfred P. Murrah Federal Building in Oklahoma City and the widespread destruction of the north downtown area, this exhibit examines the community's mobilization toward renewal. Organized into different sections highlighting the city's past, present and future, *We Will Be Back* looks at Oklahoma City's origins in 1889 on the prairie and continues through recent development. Television and newspaper clips focus on the devastating impact of the bombing, while video interviews with city officials and residents discuss the rebuilding process.

For more information, call The National Building Museum at (202) 272-2448.

An Exhibition of North American and European 20th Century Chairs
Dolly Fitterman Fine Arts
Minneapolis
Through March

Chairs are one of the most utilitarian items in any house or office. They have provided, however, inspiration for great artist and architectural imagination through the ages. The 20th century has produced a number of high-designed achievements to the chair pantheon, as this exhibit testifies. Featured designers include some of the century's most important architects, including Frank Gehry, Gerrit Rietveld, Ludwig Mies van der Rohe, Frank Lloyd Wright, Charles Eames and others.

For more information call the Fitterman gallery at (612) 623-3300.



Red-Blue Chair, Gerrit Rietveld, 1918

Bungalows of the Twin Cities
Landmark Center
St. Paul
Through 1996

Almost as American as apple pie, bungalows are the staple of American residential architecture. The Twin Cities boast a hefty display of bungalows—from the modest to the not-so-modest—as you will see in this exhibit looking at the history and significance of this popular and ubiquitous residential style.



This classic Twin Cities craftsman-style bungalow is among many featured.

For more information call (612) 731-4913.

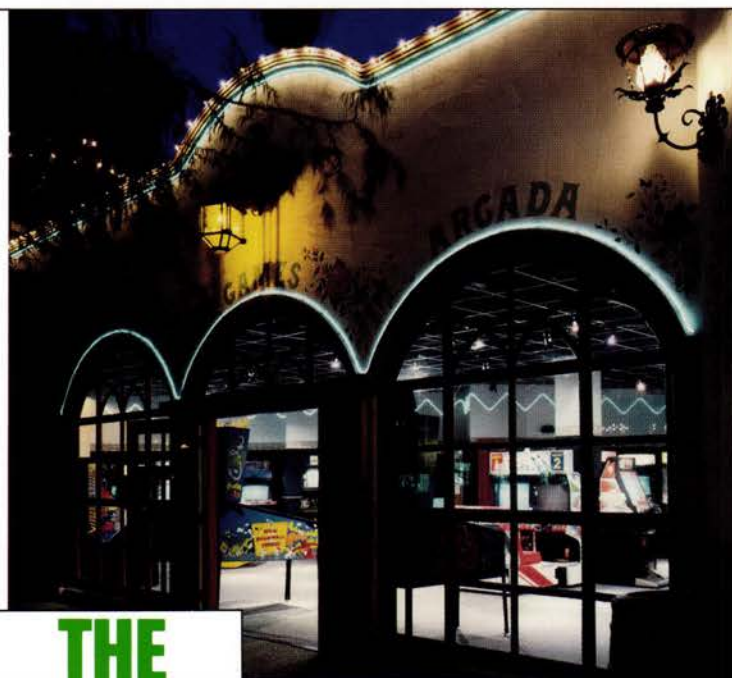
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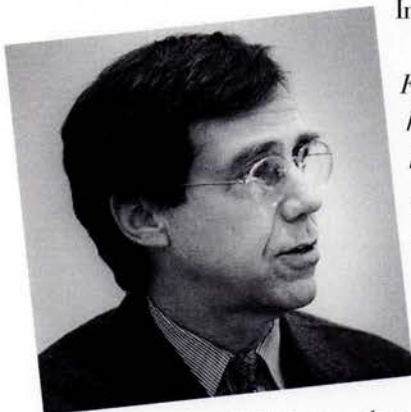
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Harrison Fraker

Passing along a venerable tradition at the University of Minnesota's College of Architecture and Landscape Architecture, Harrison Fraker heads for a new post at Berkeley

Interview by Bruce N. Wright



For more than 10 years Harrison Fraker has presided over his work like a master chef supervising the production of haute cuisine in the kitchen of a four-star restaurant. A bit of this, a pinch of that; stir up this pot and cool down that one, et voilà! A new creation is born. Only for Fraker, his kitchen is the College of Architecture and Landscape Architecture (CALA) at the University of Minnesota, and his creations are the 600-plus architecture and landscape-architecture students who work their way through the design

program on the university's Minneapolis campus. Like a chef, Fraker knows that every dish concocted starts with a good recipe.

Since 1984, when he arrived from Princeton University's Architecture School—where he taught alongside such design heavyweights as Peter Eisenman, Michael Graves and Jean LaBattoux—to take over the head of the School of Architecture and Landscape Architecture after Ralph Rapson's retirement, Fraker has constantly tinkered with the recipe for a school of design. Within two years of his arrival, Fraker had created the Design Center for the American Urban Landscape, and coaxed away from sunny California the dynamic duo William Morrish and Catherine Brown to head the center. Morrish and Brown were described in a New York Times article as "the most valuable thinkers in American urbanism today."

By 1989, Fraker had successfully maneuvered the school out from under the umbrella of the Institute of Technology into becoming an independent professional college (CALA). And Fraker appointed himself dean. Fraker is no slouch. The list of his accomplishments runs more than 40 pages. He has received a National Endowment for the Arts Design Fellowship, three national solar design awards and a Progressive Architecture citation for applied research in teaching passive-solar design in architecture. He's received several citations for design excellence, an AIA Minnesota Honor Award for his design of a residence on Lake Minnetonka, and second place (out of 400 entries) in the Evanston, Ill., Public Library national design competition.

His changes to the curricula at CALA have been major and numerous, enough to pull the master's program in architecture up to a well-respected sixth among public universities and 13th among all universities.

But now that the recipe has been refined and things are simmering along quite nicely, Fraker is moving on. He begins another cooking project in January 1996 as the dean of the College of Environmental Design at the University of California at Berkeley. Architecture Minnesota caught Fraker during a rare stationary moment in his office in the Architecture Building on the Minneapolis campus of the University of Minnesota as he began the process of handing over the spatula to CALA's numerous and quite capable sous-chefs.

Architecture Minnesota:

What motivated you to go into architecture in the first place?

Harrison Fraker: I suppose it would be a number of experiences in my youth. I built a number of elaborate electric-train setups with my father right up into my teens, and I raced sailboats from the time I was a teenager until I went to college, even into college.

For a while I thought I might be a sailboat designer and designed a number of sailboats. I designed a 12-meter boat when I was 16 years old. I actually built a 1-meter model of the boat and sailed it. I've always been fascinated about the way things are made and work. I knew when I went to college that if I wasn't going to major in English I would explore architecture. I've always been good at technical things, and it's been relatively easy for me to do math and physics.

While I was at Princeton I had a sort of epiphany on Earth Day [1972] and said to myself, we need to better understand how buildings interact with their environment and we need to design for that. I discovered that we had lost all kinds of practical wisdoms that were based on good science and good research. I really devoted 10 years of my professional career to developing

Continued on page 60

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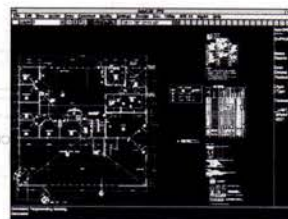
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Crossroads

From prehistoric caves to contemporary urban skyscrapers, architecture has evolved along a curve that presents ever-greater social and business challenges for each new generation of architects

By Janet Whitmore

In the last 15 years, the architectural profession has faced myriad challenges posed by new technology, economic free-fall and vigorous social change. With this article, Architecture Minnesota begins a series about the challenges, opportunities and problems that architects face today. Future articles will look at such issues as the design-build process, computer-aided design and community leadership.

The need for shelter and the desire to design it is as old as humanity. In the prehistoric caves of southern France, we find sacred paintings decorating the walls. In the earliest archaeological records at Ur and Mohenjodaro, we find traces of planned communities and a clear intention to design and build a specific type of architecture. The sophistication of these developments often surprises us, and yet they might also be viewed as evidence that the social need for intelligent, responsive design is basic to our species.

An historical overview of the architect's role reveals that four basic types of architect have been at work: the architectural team; the theoretical architect; the gentleman architect; and the solitary eccentric architect.

The first type, the architectural team, is probably the oldest. In fact, that epitome of traditional Western culture, the Parthenon, was the team creation of Pericles, Ictinus and Phidias—client, architect and sculptor, respectively. Two thousand years later, the same team concept produced Versailles. Le Vaux, Le Notre, Le Brun and Louis XIV formed a formidable and interactive team, turning a dreary, swampy estate

into the center of European culture for almost 200 years.

The second type of architect, the theoretician, also springs from Greek culture, but it is the Roman Vitruvius who really begins the tradition of the architectural theorist as writer. His comments on "firmness, commodity and delight" still carry meaning today. Vitruvius's theoretical musings reappeared during the Italian Renaissance in the writings of the Florentine architect Alberti, and perhaps most remarkably in Palladio's *Four Books of Architecture*. This writing has influenced architectural design throughout Western civilization, from London to colonial Virginia. Each time the classical trend emerges, whether it's 18th-century France or 20th-century America, Palladio's work again becomes a touchstone, a reference point and a guide.

In contrast, the gentleman architect no longer exists in our increasingly compartmentalized, specialized society. The gentleman architect is more of an armchair architect who is not trained or necessarily employed as an architect. But his interest and dedication to architecture are far-reaching. Think of Thomas Jefferson of yesteryear or the Prince of Wales today. They are both classic examples of gentlemen architects. Yet in today's world, Thomas Jefferson would not be allowed to build Monticello or the University of Virginia until a registered architect approved the design. And with the possible exception of Prince Charles, there are few individuals who can afford to take an active role in contemporary architecture unless they are qualified to make a living by doing so.

The solitary eccentric architect, so well embodied by Howard Roark in Ayn Rand's novel *The Fountainhead*, reflects

the modern concept of the avant-garde. This particular model for architects appeared in the late-19th century, at least 75 years after the solitary eccentric type emerged in painting, literature and music. In the United States, this model has been a mixed blessing. It supports the notion that a single individual, such as Louis Sullivan or Frank Lloyd Wright, can and should follow their own vision to the exclusion of the nay-sayers and Philistines of the time. However, it also supports the unfortunate perception that architects are unresponsive egotists who are incapable of listening to their clients or designing a functional building.

The reality of architectural practice today is that it requires four to six years of education, a three-year period of apprenticeship, passage of a national registration exam, licensure, and finally the patience and perseverance to learn all the business practices that weren't taught in architecture school.

Xerxes Architects, founded in 1991, exemplifies the complexity and challenge of practicing architecture in the late-20th century. The three founding partners, Gregory Carroll, Rolf Haarstad and Kathleen Lechleiter, assume a wide range of responsibilities that they did not anticipate during their years of formal education. As Haarstad says, "We were typical architecture graduates with no business background. But we also were fortunate to have worked with a large East Coast firm where we had the opportunity to learn about the complexity of architectural practice. Not everyone becomes a designer. Lots of people become project managers or business specialists."

Continued on page 61



**U.S. Department of Agriculture
Northern Crop Research Center, Fargo, ND**

"We wanted...(the structure) to tie into other buildings at the University, so we used a color of brick found on the adjacent structure, plus two other colors predominant on campus. The patterning of the brick draws from the Scandinavian tradition of enlivening utilitarian structures with color and pattern, creating visual interest during the long northern winters."

– Loren Ahles, AIA, Project Designer
– Hammel, Green and Abrahamson, Inc., Minneapolis
Photography: Tom Hlavaty



Burnsville Marketplace – Burnsville, MN

"Brick was chosen as the primary facing material...for all the long established, practical advantages; durability, low maintenance and cost effectiveness. Equally important...were the major aesthetic benefits...Brick was consistent with the surrounding context. The inherent design flexibility of unit masonry coupled with the available ranges of color and texture ensured us that Burnsville Marketplace would indeed age with interest."

– John Gould, AIA, Director of Design
– KKE Architects, Inc., Minneapolis
Photography: Lea Babcock



**Bailey Elementary School
– South Washington
County Schools, ISD 833,
Dan Hoke, Superintendent**

"Brick brought the appropriate scale to this building for a sense of strength and warmth. Its color provides a pleasing contrast to the brightly colored steel elements, and its long-term durability adds value."

– James Rydeen, FAIA, President
– Armstrong, Torseth, Shold and
Rydeen, Inc., Minneapolis
Photography: Ralph Berlovitz

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**MINNESOTA
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Architecture comes in many forms. A look at this year's Honor Awards, featured this issue, illustrates the diverse nature of Minnesota design.

Seven projects won awards: the Minnesota Children's Museum by James/Snow Architects and Architectural Alliance (featured November/December 1995); the Origen Center,

also by James/Snow Architects; the Knox Garden by Loom;

the Cowles Farmhouse by Meyer, Scherer & Rockcastle; the Lemington Municipal Transit Hub by Ellerbe Becket; the Conceptual

River Corridor Plan by Scott Wende Architects; and the Carlson Outbuildings by Salmela Architect. This year's jurors—Mark Mack of Mack Architects, Venice, Calif.; Laurie Hawkinson of Smith-Miller and Hawkinson Architects, New York; and Frederick Bland of Beyer Blinder Belle, New York—pulled the winners from 102 submissions.

Whenever a group of projects wins awards, we seek to identify common traits. We look for architectural threads that define Minnesota design, architectural characteristics that can't be found in other states. On the surface, these projects have little in common. One winner is a pair of utilitarian outbuildings in northern Wisconsin, another is a parking garage in downtown Minneapolis, and a third is a colorful museum in an urban setting.

Yet while functionally quite different from each other, several projects share an attitude or approach to design. Take the Knox Garden and the Conceptual River Corridor Plan, for instance. Both seem unlikely winners: They are not particularly glamorous or glitzy. What distinguishes these two is their grass-roots method to design. Both represent community involvement, people taking charge of their neighborhoods. Numerous neighborhood groups participated in the development of the river plan. And those same groups will need the collective will and drive to convert these urban-design concepts into reality. The Knox Garden arose from similar community efforts. Here volunteers rolled up their sleeves and transformed an abandoned lot in north Minneapolis into a garden for children and adults alike. Rather than sitting around and waiting for City Hall to fix the blight, the neighbors fixed it themselves.

Other winning projects also speak of community. The Origen Center, built by a large corporation, is a democratic building. Origen is designed and planned to encourage interaction between different divisions. Here hierarchy is thrown out the window. All who use the building are equal. The Children's Museum, too, is a place for shared activities and equality. With its range of educational exhibits, the museum is a metro-wide and state-wide playground where children from all neighborhoods are invited.

Eric Kudalis

As this year's winners indicate, when a community comes together positive solutions result.

If you know northern Minnesota, then you know Duluth. And if you know Duluth, then you know Superior Street. Since the 19th century, Superior Street has carried on as the city's principal thoroughfare, surviving fits of boom and bust. The retail scene has been eclipsed by the Miller Hill Mall "over the hill," but history lingers on. Superior Street is home to more than six turn-of-the-century buildings; Hennepin Avenue in Minneapolis can claim only one. **O**f course, when Daniel Greysolon Sieur du Lhut passed through the Lake Superior area in 1679, visions of great architecture were far in the future. For the next 100 years Duluth remained an undiscovered hinterland, until the British Northwest Company established a trading post in 1793. Still, development was slow. In 1857 "du Lhut" incorporated itself as Duluth. Two years later, a Federal Land Office opened shop and eager investors soon discovered the city's potential. **D**uluth is a Chicago at the head of the Lakes," proclaimed Jay Cooke of Philadelphia in 1868. One year later, Cooke established Duluth's first bank. Commerce was born. And the Northern Pacific Railroad followed. By 1872, Superior Street had emerged as Duluth's principal business district. Mule-driven streetcars appeared in 1883. And in 1887, the architectural firms of McMillen and Stebbins, and Wirth and Traphagen were formed to help shape the "metropolis of the Northwest." The best way to understand Superior Street's architecture is on foot. So bundle up and carry this article along.



If architecture is a barometer of a city's economic and cultural success, then the inflationary and recessionary 1970s were not kind to Duluth and its treasured Superior Street. Indeed, the 1970 **Radisson Hotel** by William Tabler at 505 West resembles a Duracell™ battery. Even though the brick-clad structure pushes the envelope of

good taste, the hotel is a familiar icon on Duluth's cityscape, as well as a beloved testament to modern kitsch. The rooftop revolving restaurant and cocktail lounge are fabulous.

Modern architecture redeems itself in Gunnar Birkerts celebrated design for the **Duluth Public Library**. Opened in 1980, the civic



building evokes images of sailing ships, a perfect metaphor for northern Minnesota's premier city. To further the

B Y D A V I D A N G E R

oceanliner motif, Birkerts offered several moderne touches, including the building's rounded front and chrome decorative elements.

Continue along the southern side of Superior Street to the central business district. Between Fourth and Third avenues West stand three architecturally significant buildings: the Medical Arts Office, Torrey and Alworth buildings.

The first stop at 324 West is the **Medical Arts Office Building** of 1933. Stepped-back in art-deco fashion, the 12-story steel skeleton is the brainchild of Duluth architect Ernest Erickson. It is a familiar design, recalling St. Paul's heroic city hall with perpendicular windows gracing a cold, smooth skin of white stone. In addition, it is one of the few examples of art deco in the city. However, this building is localized by the stylized sculpted heads of Native Americans that are visible

rated fire-proofing techniques, allowing the owners to advertise the building as "absolutely fireproof." Here, iron and wooden beams were covered with terra cotta or baked clay, a method pioneered in Chicago after the Great Fire of 1871. The \$300,000 building was the talk of the Upper Midwest. In the 1950s, the entrance as well as the two floors above were covered with a dubious International-style facade.

Twenty years after the completion of the Torrey Building, D.H. Burnham was invited to design a 16-story skyscraper called the **Alworth Building**. The great Chicagoan had already gained international recognition for his famed Flatiron Building in New York and Wannamaker's in Philadelphia. Opened in 1910, Alworth was trumpeted by the local press. The *Duluth News Tribune* gushed that it is "a cosmopolitan office build-



West (218-722-7763) for great burgers and onion rings. A Duluth institution since 1917.

The historic **Wirth Block** of 1886 rests between First



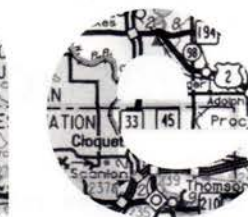
Avenue West and Lake Avenue. Like the nearby Oppel Block, the narrow 3-story structure combined residence and store. Completed in 1886 for druggist Max Wirth, the rough quarry-faced sandstone surface was embellished by Oliver Traphagen with Gothic and Romanesque touches. A

the-century **C.H. Oppel Block** at 115 East. It can't be missed—the owner's name is carved in relief above the third floor. Attributed to the opus of Traphagen, the 1885 building housed a general store and was topped by two levels of apartments. The Richardsonian Romanesque influence is evident in the busy brick and stone work.

The Old City Hall and Jail, one of Traphagen's first



commissions, can be found across the street at 126 East. After Duluth's government was rechartered in 1887, the city needed a new headquarters. In 1889, this building of soft sandstone and spacious windows was realized. Won-



from the street. Erickson moved to Evanston, Ill., where he designed, among other things, apartments along Lake Shore Drive.

Next door is the **Torrey Building**, dating from 1892. The product of the Duluth architectural duo of Traphagen and Fitzpatrick, the 11-story structure was the city's tallest building until 1910. It incorpo-

ing, one that dwarfs the Tower of Babel to a mere cottage in comparison." Complete with 275 offices carried on steel beams, columns and girders, the \$500,000 Alworth Building was properly identified as "an epoch in the architectural legacy of Duluth."

For a calorie-heavy yet delicious lunch stop by **Mr. Nick's Famous Charburgers** at 220

bay window on the second floor enlivens the façade, while allowing light into an otherwise bleak flat.

Joy Kops Gallery at 32 East (218-722-0831) showcases Duluth and Northern Minnesota artists, including gallery owner Joy Kops' own art furniture. Exhibitions change regularly.

After crossing First Avenue East, walk toward the turn-of-

derful details abound, including Duluth's crest. The distinctly Richardsonian Romanesque design is modified by the presence of 19th-century French bay windows. The 2-story building is a stunning example of architectural preservation on Superior Street.

On the northeast corner of Superior Street and Second

Avenue East discover one of Duluth's most celebrated buildings: **Masonic Temple Opera Building**. For a sum of \$200,000 the Duluth archi-



tectural firm of McMillen and Stebbins watched its bizarre mix of Moorish and Romanesque ideas rise in 1889. Sitting atop the building's corner stood a Moorish-style cupola. The towering 5-story structure housed the Masonic Lodge, among other things. When passions for the Romanesque plummeted, building owner G.G. Hartley chopped off the upper three stories so that the building would not compete with the classic purity of the new Orpheum Theater

Kaplan's 1939 contribution to the city. Take a short jog up Second Avenue East to study the Orpheum Theater of 1910, which was designed by J.E.O. Pridmore of Chicago in the Greco-Roman architectural ethos.

Self-made iron man George Crosby led a citizen's committee to build the impressive **Hotel Duluth** at 227 East. When Duluth's population



Overnight guests are no longer welcome here, but long-term residents make it home.

Everyone knows about the spirited medieval landmark at 600 East called **Fitzger's Brewery**, which is a must



see. Designed by the Duluth architectural duo of Traphagen and Fitzpatrick, and completed in 1890, the building's surface is of Lake Superior black basalt. In addition, small windows endow the place with a castlelike appeal. Nowadays, it is home to a first-rate hotel and restaurant.

To rest weary feet and warm hearts, stop for a microbeer at Fitzger's Brewhouse

four buildings in Duluth and his **Hartley Office Building** at 740 East remains an architectural treasure. Completed in 1914, the diminutive building of Elizabethan Tudor pretensions sits on a narrow strip of land between East Superior Street and the railroad tracks. Together with the Kitchi Gammi Club ahead, the building joins the city to the rugged lakeshore.

Our walk concludes outside the **Kitchi Gammi Club** at 831 East, which marked



Goodhue's architectural debut in Duluth. When Goodhue unveiled his design for the \$300,000 edifice, senior members of his New York firm

Exploring Duluth's Superior Street by foot reveals a city rich in architectural history

next door. Yet much of the stone and detailing remain, including the street's most impressive entryways.

Next door to the Opera building at 211 East stands the **Nor Shor Theater**. The art-deco façade is Liebenberg and



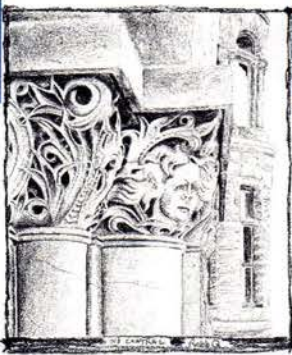
peaked at 113,754 in the 1920s, this palace could compete with the best in Minneapolis, Chicago and beyond. The \$2.4 million project boasted 500 rooms as well as steel and reinforced-concrete construction. Architecturally, the building reflects the eclectic fashion of the day. For instance, the management described the hotel as possessing a "thoroughly Italian Renaissance" lobby, leading to a "typical Spanish dining room."

(218-726-1392), featuring libations and ciders.

The simple **Northwestern Oil Company** at 706 East was built in 1921. The gasoline station was conceived as part of the "City Beautiful" movement. Unfortunately, the building lost much of its cache when the dramatic cantilevered canopy—supported by Art Nouveau ironwork—was removed.

New York architect Bertram Goodhue designed

winned. The architect broke with the firm's dogmatic Gothicism by simplifying decoration. Goodhue also added such elements as Georgian pilasters and Tudor details. Still a favorite haunt of Duluth's establishment for wedding receptions and business gatherings, everyone enjoys the club's union of traditional metal, wood and stone handicrafts. A rare find, indeed.



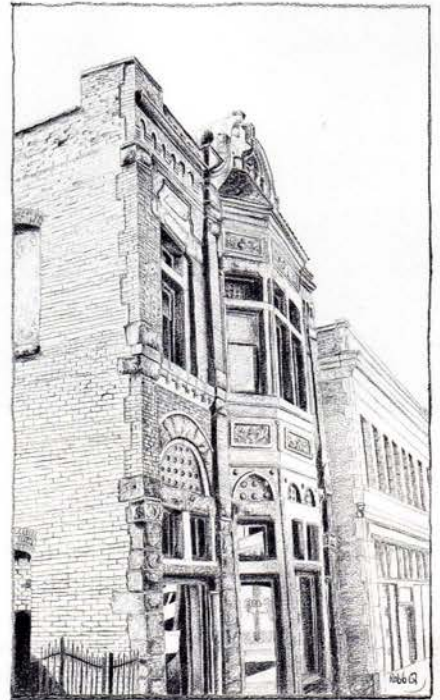
Old Duluth Central High School
Lake Avenue and Second Street
Architects: Emmet S. Palmer and
Lucien P. Hall
1892

Duluth Sketchbook

Duluth artist Robb Quisling, initially focusing on portraits, has expanded his aesthetic gaze to Duluth's architectural landscape for new inspiration. "I find that many of our local structures have their own personalities, as reflected in their distinct designs and unique historical stories," he says. His drawings are made from wax crayon, litho-crayon, black oil pencil and china marker. He then tints the prints with oil pastels and oil pencils, made transparent with a turpentine wash.



Apartment Building
214 East Fourth Street
Architect: John Wangenstein with Olav Roen
1890



Duluth's First Jail
126 East Superior Street
Architect: Oliver G. Traphagen
1889



Apartment Building
301-307 East Third Street
Architects: Oliver G. Traphagen and
Francis W. Fitzpatrick

*Built on the treeless plains by westward-bound pioneers in the 19th century,
sod houses are a nearly washed-away chapter*

SOD LIVING

in American architectural history



Since twilight I've been reading by oil lamp, tucked into a creaky wood bed warmed by a handmade quilt and buffalo robe. Retiring meadowlarks and killdeer have quit their lullabies. Evening breezes that tickled dry grass stems peeking from between window frames are still. In the country quiet, the earthen walls and roof sheltering me issue a reassuring permanence that belies a lost history, the lack of similar structures nearby. I leave my bed for one last trip to the outhouse. Pulling open the heavy plank door reveals a celestial sight: fireflies spark the night sky, lighting my way as I walk through big bluestem damp with light rain. Looking over my shoulder, the one-room sod house in which I'm staying rises organically from the landscape—long, squat and sturdy—like a small aberration.

No, I'm not aping Laura Ingalls Wilder, author of *Little House on the Prairie* and other books about pioneer sod-house living in the Midwest. I'm describing a night's stay at the McCone Sod House on the Prairie, an 1880s-era reconstruction of a "rich-man's soddy" that's both a museum and a bed and breakfast. A few yards away from this sod house sits a reconstruction of a "poor-man's dugout" as well, open for visiting only. Both soddies have their own sod outhouses and are surrounded by restored prairie. At one time, "within a 5-mile radius of this spot," reads the plaque outside the dugout, "stood at least 10 sod houses or dugouts."

One hundred years after sod houses were a familiar sight on the prairie, Stan and Virginia McCone and family constructed these soddies on their rural property near Sanborn in southwestern Minnesota. The area, once part of the tallgrass prairie that stretched from Canada through western Minneso-

ta to Oklahoma, is now a farmland vista of cornfields, crop sprayers and silos.

"Their names have been forgotten, their homes have vanished, their native prairie is gone," says Stan McCone of the pioneers. "We hope people will remember them as they visit our sod houses, and appreciate who they were and how they lived." Part entrepreneurial enterprise, part homage to America's pioneer farmers or sod-busters, the McCones' venture is also a tribute to an oft-forgotten form of frontier architecture.

Fortified with Thomas Jefferson's dream of agrarian democracy and their 160-acres per yeoman farmer, the settlers ventured west during the late 1800s. When they reached the edge of the eastern forests through which they'd been traveling, they were shocked by the treeless grassland that stretched

endlessly before them. The pioneers were knowledgeable in such traditional home-building techniques as stone, brick, log and sometimes timber-frame. But on their claims in Nebraska, Colorado, Texas, Oklahoma, the Dakotas, western Kansas and southwestern Minnesota, the only building material present was sod (aside from cottonwoods lining scarce streams and ponds, and the occasional prairie-fire-resistant oak). A bonus for cash-poor pioneers, sod was also free.

Initially, some settlers simply dug caves out of rises in the earth or the sides of small hills. Eventually, they learned that the root-tangled prairie sod (half a square meter of big-bluestem sod may contain 13 miles of rootlets) could be cut into building blocks. Some dug out a hillside for a back or side wall, or dug a pit in the ground, and con-

BY CAMILLE LEFEVRE

structed the remaining walls from sod bricks. How they realized the benefits of sod is uncertain. But what we now call earth-sheltered housing has existed in human communities from prehistory through the present.

"It's possible the sod house came to the prairie as the tribal style which the Indo-European migrants had brought from the treeless steppes of central Asia. It has been used for millennia in those regions....," writes Roger Kennedy in his book, *Minnesota Houses: An Architectural & Historical View*. Consider, also, that Native Americans have carved or built homes out of the earth for centuries: Eskimo igloos, Pueblo kivas, the ancient Indian cliff palace at Mesa Verde. "The earth lodges of the Omaha Indians may have inspired the Mormons in building Nebraska's first sod houses," writes Roger L. Welsch in his book *Sod Walls: The Story of the Nebraska Sod House*. Throughout the Great Plains, the Mandan, Pawnee and Arikaree Indians also built dome-like earth houses.

Whatever the inspiration, from the mid-1800s through the early 20th century, settlers taught each other to build sod houses. Always considered temporary housing (the prelude to a "real" timber-frame house), even when lived in for a decade or more, soddies more than met the climatic, geographic and sociologic perils of pioneer life. The soddy's thick walls and roof insulated against intense summer heat, winter's bitter cold and harsh winds. Sod stopped arrows and bullets. And sod houses frequently withstood tornadoes and prairie fire.

However, sod houses posed perils of their own. If a family could not afford to line their sod roof with tar paper, leaks would continue days after a hard rain. Because of their weight, roofs required substantial wooden support; builders who skimped in this area might end up with tons of soggy sod collapsing on them. Unfinished interior walls and ceilings housed snakes, rodents and bugs that found their way into bedding or dropped on people's heads. Un-



In the late-19th century, pioneers built many structures of sod, including this Nebraska school house.

lace on the corners of a sod house. Buffalo or night travelers, unaware that they were passing over a dugout built into a hillside, might unwittingly cause a roof to cave in.

Nonetheless, in addition to houses, settlers built businesses, churches, schools, barns, corrals, even dog houses out of sod. "The sod house, since it was folk architecture, displayed great variety," Welsch writes. Many factors determined style, including site, tool availability, and money to buy wood, shingles, windows and hardware; the number of family members; needs of livestock or other business; and the time of year. Most houses were simple rectangles facing south, one wall lined up with the North Star. L-floor and T-floor plans, even round houses could be found. "In the 1860s, 1870s, and even later, western Minnesota was dotted with sod houses of various types and sizes," reports Merrill E. Jarchow in his book, *The Earth Brought Forth*.

Today no original sod houses or dugouts exist in Minnesota. Only depressions or indentations may remain—like the outline of the sod dugout, immortalized by Wilder in her book, near Walnut Grove, Minn. The grainy photographs of Solomon Devoe Butcher and

others, as well as oral histories collected in various texts, piece together a picture of early settlement architecture on the prairie. But for a real sense of sod-house living, nothing beats a stay in the McCones' soddy.

In the summer of 1987 Stan McCone, a descendant of homesteaders, began constructing a sod house in the manner of his forefathers. He found a low-lying area of virgin prairie and, with the owner's permission, began cutting the sod with a modified modern grass-sod cutter pulled behind a tractor. (Pioneers developed a butterfly plow for cutting prairie sod, which was pulled by a team of oxen or horses.) The sod was cut in 1-foot-wide strips, 4 to 6 inches thick, and later sectioned into 2-foot blocks. Pulling the root-tangled sod from the earth sounded like "the ripping of a giant canvas," McCone says. The sod was piled on a wagon (homesteaders in another state called their sod bricks "Nebraska marble"), and transported to the site.

Rows of sod blocks were staggered on top of each other in the manner of bricklay-



A sod blacksmith shop in West Union, Nebraska featured a lapped-sod roof (above). The McCone sod house (opposite) is a reconstruction of an 1880s "rich-man's" soddy near Sanborn, Minn., which is a museum and bed-and-breakfast.

planked dirt floors—despite being tamped to a concrete-like hardness—turned to mud during rain. Cows with itchy backs, having no trees to rub up against, found so-

Continued on page 61



MANUFACTURING ideas



DORIS WONG

Cedar offers contrast to the glass façade.

The Origen Center, designed by James/Snow Architects in rural Wisconsin, is a gleaming piece of modernist architecture. The building's beauty is derived from a crystal-clear expression of its structural form and function. As one honor-award juror noted while praising the building, less, plus a little extra, is more.

Julie Snow, formerly of James/Snow Architects and now working independently, has designed several facilities for Phillips Plastics Corporation. In addition, she received an AIA Minnesota Honor Award in 1990 for the corporation's Short Run plant near New Richmond, Wisconsin.

The Origen Center, the architect says, "continues the ongoing exploration of the relationship between the structure and the skin."

By Eric Kudalis



Lit at night, the Origen Center is a beacon on the prairie, with the roof seemingly floating above the structure.



A grid-patterned overhang shields the main entrance.



With many floor-to-ceiling windows, transparency is at the core of the building.

A division of labor finds common ground in this industrial building



DON F. WONG

Light streams through clerestories into a training room.



A partition marks the reception desk.



The main reception desk is sandwiched between a glass back wall and a glass entrance.

The main corridor (opposite) visually alternates between inside and outside.

Here the skin is a veneer that functions simply as enclosure. "Opacity, translucency and transparency, as well as the operation of the window units, become the dominant expression," the architect says. "The skin is a taut wrapper, transparent through the structure. Structural information is expressed on the exterior by the transparency of the curtain wall to the structure within."

Although glass and aluminum framing are dominant materials, the architects soften the façade with cedar and cut granite. Thus this is modernism, but modernism with a heart.

Phillips, which produces highly engineered plastics, conceived the Center as a place for the exchange of manufacturing ideas and expertise, in which a manufacturing training center, a start-up manufacturing-production facility, and an incubator for new businesses combine in a single building. All three divisions—laid out along a 468-foot-long, 12-foot-wide corridor—are separate from each other. Yet common areas—dining, conference rooms, copy center—are shared by all three divisions to encourage interaction. The fact that the functions share a hall also brings people together in casual encounters and conversations.

The interior is light-infused; exterior and interior become one. The reception desk stands at the center of the building, sandwiched between a glass wall and glass entry. Walking along the glass-enclosed main east-west corridor, you alternate visually between interior and exterior views. Even interior rooms are filled with light, such as in production and manufacturing rooms where the sun enters from the clerestories, making the metal ceiling seem to float above the rooms.

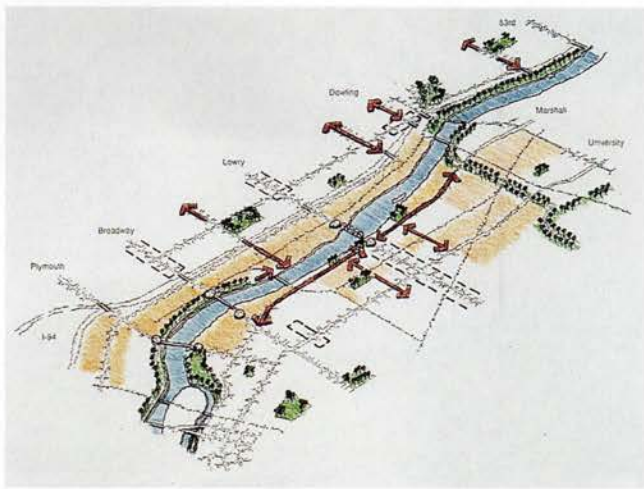
As the seasons change, the interplay of daylight on architecture changes. The users' workday is engaged by the evolution in light and views between inside and outside. This is architecture in which separation and connection dance along the same line.



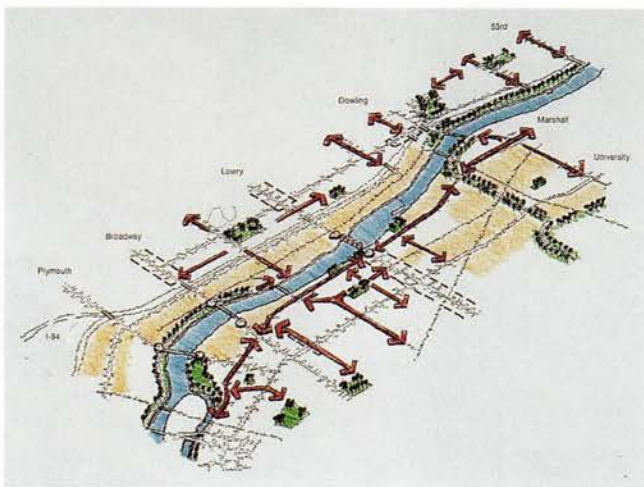
HONOR AWARD

Origen Center
Menomonie, Wis.
James/Snow Architects

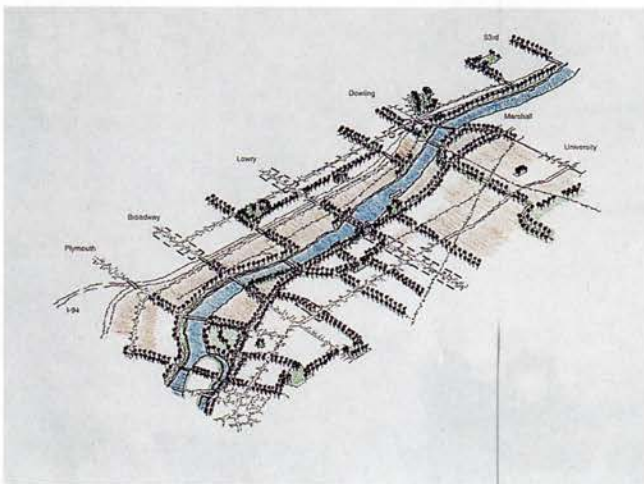




Previous Planning



Proposed Connections



Green System



COURTESY DESIGN CENTER FOR THE AMERICAN URBAN LANDSCAPE



SCOTT WENDE

This conceptual project represents one of the rare occasions that an urban-design plan has won an AIA Minnesota Honor Award. Because the Mississippi River, the fuel of Minneapolis-St. Paul's original economic growth, is tied closely to the city's identity, it seems appropriate that the plan should win for identifying the next wave of urban growth. The Mississippi Corridor Neighborhood Coalition plan looks at the river's potential for real growth by examining the existing land use, improving river access for the neighborhoods, and combining these elements for redevelopment and improvements.



DESIGN CENTER

On the river

A new urban-design plan looks at the Mississippi River as a place for community-involved growth and development

Perhaps what makes this plan different from other urban-design frameworks is its grass-roots approach. Numerous public meetings led to its development. The Mississippi Corridor Neighborhood Coalition comprises Bot-

teau Citizens in Action and 11 neighborhood organizations along the upper Mississippi River corridor, from Hennepin Avenue and Nicollet Island to the city limits on the north.

The final report provides a conceptual plan and implementation steps for the neighborhoods. Strategies and potential projects are suggested for individual and collective neighborhood approaches to utilizing the river.

Suggestions include redeveloping some land for parks, pedestrian and bike trails; building a variety of low-rise housing types; enhancing lateral neighborhood connections with land-

scaping and lighting that would create a sense of entrance to the river; encouraging neighborhood-based commercial enterprises; and implementing neighborhood gateways.

The plan also cautions that certain hurdles must be overcome if any of the ideas are to reach fruition. First, the city needs to change its outdated perspective of the river as an industrial region. The city must recognize the river as a civic place that can help revitalize neighborhoods. Also, the plan advises that the city of Minneapolis, State of Minnesota and Federal government view the river as a national resource exempt from the fickle mood of politics. In addition, the city and the neighborhoods should muster the political will to promote the suggested changes, so that neighborhoods have influence in shaping public policy and revising outdated zoning and development policies.

The Conceptual River Corridor Plan, having laid some groundwork for future growth, is only the beginning. **E.K.**



SCOTT WENDE



HONOR AWARD

Conceptual River Corridor Plan
A Neighborhood-based Plan for the
Upper River Corridor
Minneapolis
Scott Wendt Architects



*Two outbuildings
rise above pure function
through simplicity and
craftsmanship*





David Salmela sited the two outbuildings at right angles to each other. The red-painted workshop (above), in contrast to the deep-blue storage shed (left), has a portico. With both outbuildings, whitewashed walls, concrete floors and exposed framing comprise the interior finishes (right).



JIM BRANDENBURG

Scandinavian echoes

The Carlson outbuildings in northern Wisconsin are more than the sum of their parts. The clients, whose summer home is an old farmstead beside a lake, asked for a storage shed for the property's large maintenance equipment as well as a workshop for repairs and construction hobbies. A builder suggested a standard metal shed—a ubiquitous structure along rural highways that certainly gets the job done. The clients wanted more than pure function though, and hired David Salmela of Duluth.

Salmela has become a perennial favorite at the AIA Minnesota Honor Awards, having taken trophies for his firm's work several years running. A look at these two outbuildings, set at right angles to each other, shows why. No job is too small for Salmela. Whether designing a Finnish-inspired house in suburban Minneapolis or a getaway cabin in northern Minnesota, Salmela applies a steady design hand that emphasizes a Scandinavian-influenced concern for detailing, materials, craftsmanship and simplicity.

Here each cedar-sided building measures 15 feet by 48 feet, one painted a deep blue, the other a deep red, both with white-trimmed windows. By placing them at right angles, Salmela created a courtyard that faces the lake and origi-

nal farmhouse, a traditional white-sided house with a Dutch-style roof. The courtyard, then, can be used for multiple functions as it maintains a visible connection between the house and secondary buildings. A portico at the shop's west end further establishes the open connection between the outbuildings and the house and yard.



Interiors for both buildings are fairly straightforward, with their whitewashed walls, concrete floors, exposed framing and trusses. A large overhead door divides the shop in two: an insulat-

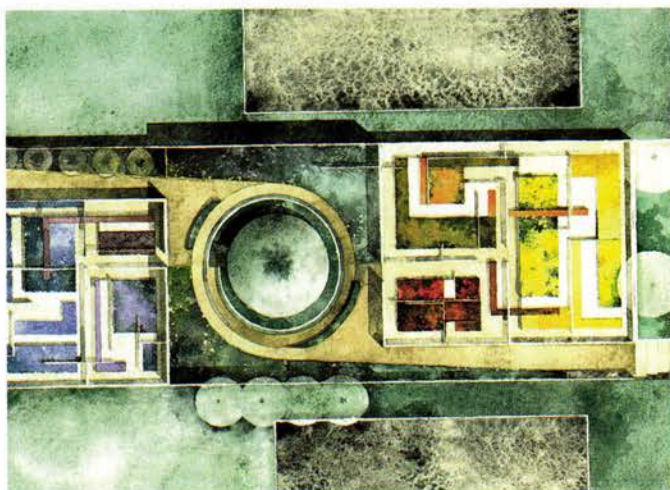
ed side with a double-gabled ceiling, and a noninsulated side with an exposed-truss ceiling. When the door is raised, the shop becomes one pavilion. The noninsulated equipment building is essentially a single open space. Vehicles for both buildings enter from the back sides, which abut the woods.

E.K.



HONOR AWARD
Carlson Outbuildings
Northern Wisconsin
Salmela Architect

URBAN STORIES



Site plan of the Knox Garden places the Apple Room of the Original Garden at the center, with Adam's Space to the left and Eve's Space to the right. Volunteers (below) helped construct the garden.

The Knox Garden in north Minneapolis is a successful example of community members working together to improve—however modestly—their north-Minneapolis neighborhood. In fact, the garden—built for \$9,050 in materials and plants—was a real hands-on undertaking. Neighborhood volunteers; a nonprofit job-training program; Sentence to Serve

workers; elementary, high school and university students and a group of cross-country cyclists all pitched in.

The clients—the nonprofit Sustainable Resources Center and the Minneapolis Park and Recreation Board collaborating with the Oak Park Community Center and the adjacent Boys and Girls Club—requested a multiuse urban green space. With educational as well as recreational uses in mind, the clients wanted a small gathering space for story-telling, programs, demonstrations, and performances. While the adjacent community center uses the garden as an extension of its own facilities, neighborhood residents have specific spaces for gardening, as well.

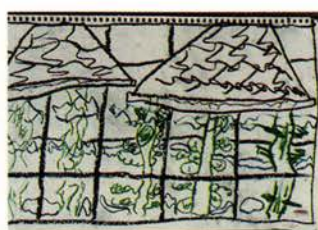
The community built the garden with such recycled and local materials as salvaged and repainted wire mesh, steel posts from the



RALPH NELSON



The garden, as seen from Knox Avenue, was built on vacant land. Children's sketches (left) show ideas for the "garden of worldly delights."





**A north Minneapolis
neighborhood reclaims a
small part of the city with a
multipurpose garden**





site and leftover warehouse stock. New and salvaged timber were used for retaining walls, steps and raised beds. And the group reclaimed 100-year-old stone pavers from old city streets for a central meeting area and seating. Donated wood chips form a garden path.

Three major areas define the project: the Original Garden, Eve's space and Adam's space. Wire mesh offers enclosure while leaving the open-air rooms visibly exposed for safety. The Original Garden nurtures native plants and fruit-bearing species. Within the Original Garden is the cylinder-shaped Apple Room, devoted to group gatherings and storytelling around a serpentine stone bench surrounding an apple tree. On the east end of the garden is Eve's space, three small rooms made of red, yellow and orange mesh, with a single seat for Eve carved in timber. On the west end is Adam's space, three rooms of blue, purple and green wire



A seating area (above) surrounds an apple tree in the circular Apple Room. Within the Original Garden (opposite) looking toward the Red, Orange and Yellow rooms, a child walks toward the Apple Room (opposite bottom). Painted chain-link fencing, as with all the rooms, make up the Red Room (below).

mesh, with a seat for Adam in the green room. Plants in each room correspond to the room's specific colors. Sunflowers, for instance, grow in the yellow room, carrots in the orange room, and bleeding hearts in the red room. **E.K.**



HONOR AWARD

Knox Garden
Minneapolis
Loom



A transit hub makes its imprint in downtown Minneapolis



The Transit Hub (opposite) occupies an entire city block in downtown Minneapolis. Facilities include parking for 2,000 cars, a main pedestrian lobby (above) and a bus-transfer system (below).

Minneapolis-St. Paul may well hold the national record for the number of high-design, award-winning parking structures per capita. The Lemington Municipal Transit Hub, designed by Ellerbe Becket in downtown Minneapolis, is the latest entry to capture an AIA Minnesota Honor Award.

This 7-level, 2,000-space garage occupies an entire city block near the Minneapolis Convention Center and across the street from the 800-room Hilton Hotel. As a transit hub, the facility accommodates more than just cars. Lemington contains a terminal with lobby and commercial spaces to serve the new central-business district's shuttle-bus system. With car parking beginning on the second level and above, the facility has a seven-gate commuter bus terminal be-

low grade that links to the shuttle lobby and future light-rail transit tunnel. Because the facility is both a transit hub and parking garage, nearly 20,000 people travel through the building daily.

Ellerbe Becket set out to reestablish the urban context of the surrounding blocks by respecting the general heights of existing buildings and providing numerous street-level openings for pedestrians to view interior functions. The building, the architects state, needed to read as a real piece of architecture—not just another municipal garage.

The Lemington Municipal Transit Hub does, indeed, read as real architecture. The exterior is a play of forms, textures, colors and materials that offers an intriguing image to pedestrians. Vertical, glass-enclosed stairwells on each corner contrast with a horizontal, two-toned banding of precast panels along the sides. The façade achieves architectural tension because all the elements are slightly skewed, suggesting motion. Inside, the main pedestrian circulation spine is clean and efficient as it leads to street-level access, as well as parking above and bus terminals below.

In a city lacking grand old train stations with all the bustle of people dashing to and from their destinations, the Lemington Municipal Transit Hub creates a bit of that urban energy. **E.K.**



HONOR AWARD
Lemington Municipal
Transit Hub
Ellerbe Becket
Minneapolis





D O W N T O W N C O M M U T I N G



Meyer, Scherer & Rockcastle took a modest farmhouse (above) and expanded it into a comfortable country retreat. They added a new garage with a porch (opposite right), and a master bedroom attached via an open-air pergola (opposite bottom). Work also included revamping smaller structures on the property, such as the chicken coop (right), which now serves as an office.



NICK WHEELER

*A renovated and expanded farmstead
augments a casual country lifestyle*



LEA BARCOCK



NICK WHEELER

On the FARM

Perhaps we all dream of moving to the country at one time or another, secured away from the crime and noise of the city. This renovated farmstead, in all its white-sided, vernacular quietude, epitomizes why we dream of the country.

Meyer, Scherer & Rockcastle's mission was to transform a 160-acre grouping of farm buildings with an original house into a family retreat. The job entailed re-



NICK WHEELER

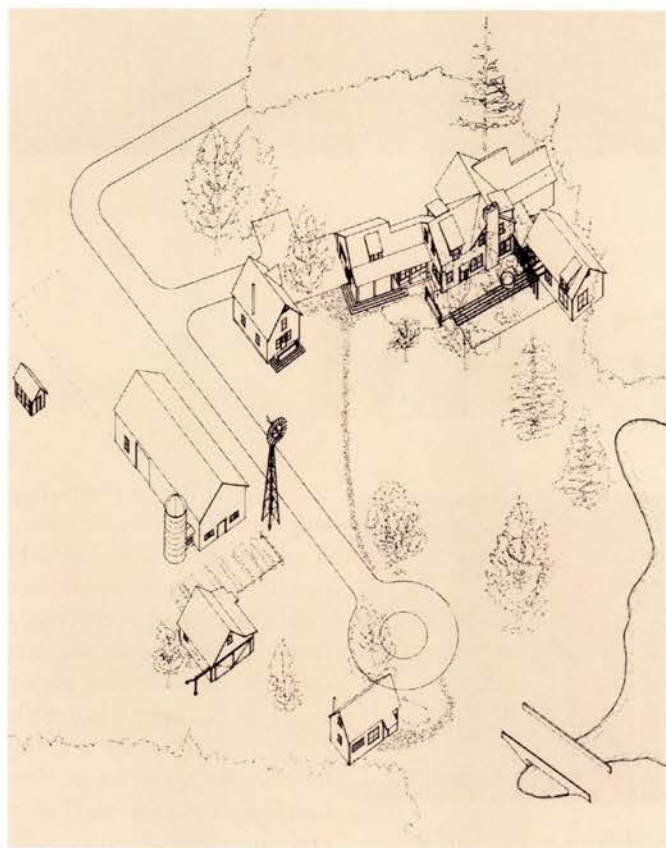
modeling some buildings, tearing down others, revamping the landscape and adding to the house.

The original farmhouse was a fairly typical 2-story rural structure with lap siding. This main house still remains, but significantly transformed inside and out. To one side, the architects added a new attached garage with porch tucked under a comfortably deep overhang. The porch and garage lead to a new stone-floored entry hall. On the other end of the house adjacent to the study, Meyer, Scherer & Rockcastle added a

A new entry hall (opposite) leads from the garage to the main house. The floor was designed and installed by Connie Mayron and Fuller Cowles. The living room and dining area (right) have been renewed, while retaining the original country-style charm. The plan (below) shows the house in relation to existing buildings.



NICK WHEELER



dance studio. At a slight angle from the dance room, they added a new master bedroom or "cabin" on the first level, which is attached to the main house by

a glass-covered pergola that provides an open-air link in the summer and a sunny enclosed sitting area in the winter. By attaching the master bedroom with a pergola, the room indeed feels like a cabin, slightly detached from the rest of things.

Beyond the house, the architects renovated other farmstead structures, including the chicken coop, which now serves as a home office. The grounds, once farmed, have been restored to native



LEA BABCOCK

prairie grasses by landscape architect Herb Baldwin. Where an eroded ravine once lay at the edge of the farm is now a pond. Arranged throughout the property are a new garden, orchard, tennis court and car shed.

E.K.



HONOR AWARD
Cowles Farmhouse
Shafer, Minn.
Meyer, Scherer & Rockcastle

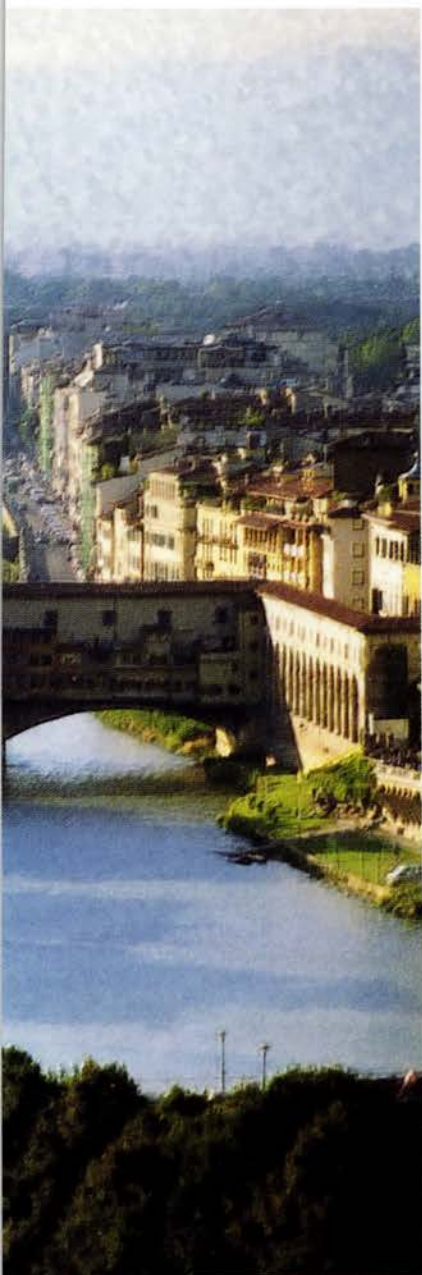


Backroads



PHOTOS AND DIGITAL IMAGING BY BRAD CHRISTIAN

of Italy



The less-traveled roads often offer the most intriguing experiences. Ruth and Brad Christian, bikes in gear, peddled through the Tuscan countryside this autumn, past medieval villages, up hills, over woodlands and along sprawling vineyards to discover the scent and flavor of this centuries-old region.



■ We began in Florence (left), then rode through rolling woodlands of Tuscan (center) landscape near Gaiole, a local center for the production of Chianti Classico wines (top), and finally indulged in the comforts of Castello di Spaltenna, located in the medieval village of Radda in Chianti (above).



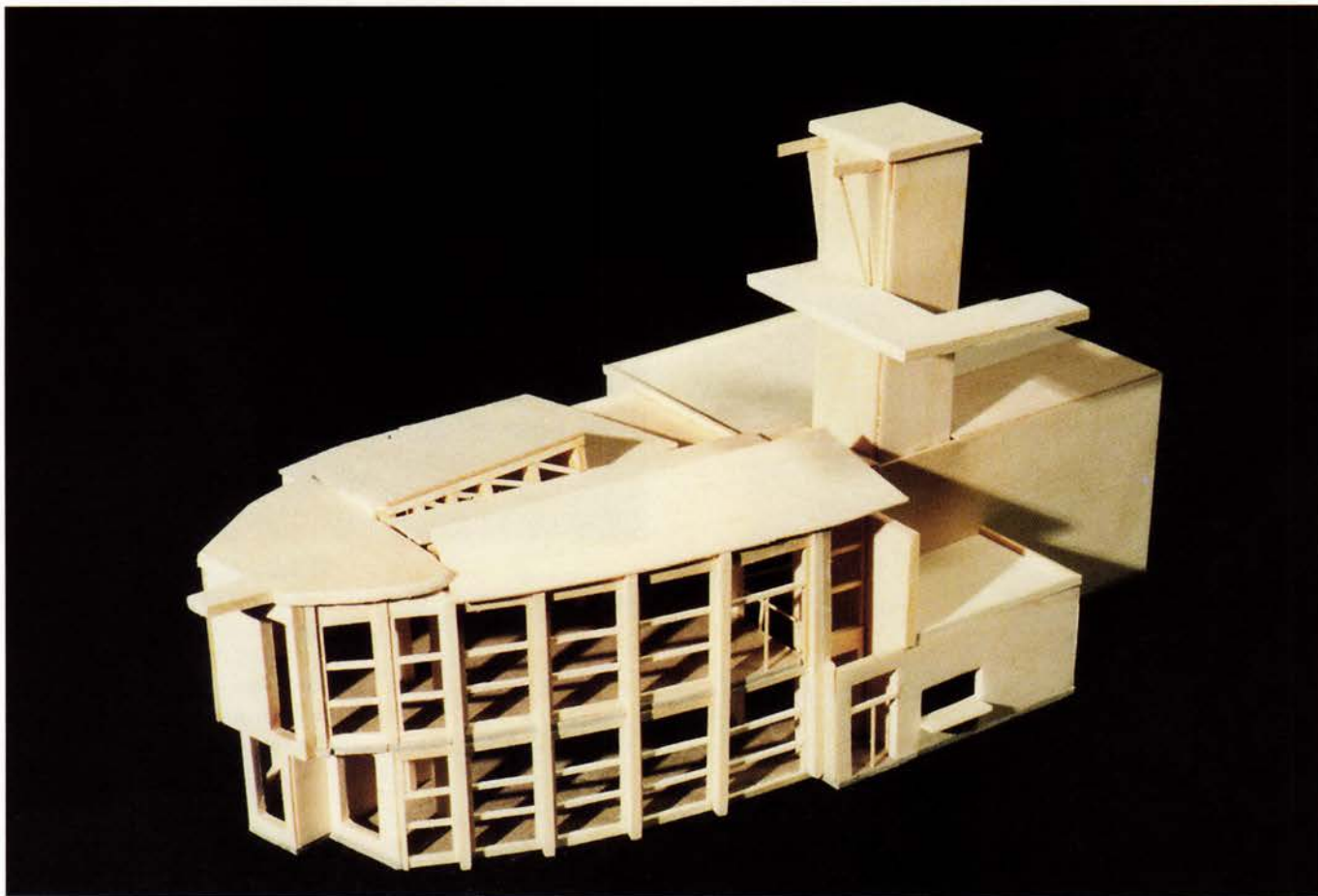
■ Scenes that caught our gaze along the way were an alley in Siena (top), a detail of the well-preserved walled village of Monteriggioni (above), and Colle di Val d'Elsa, a Tuscan town (right).





■ We caught a view of the surrounding Tuscany countryside and roof tops from a tower in the 12th-century hill town of San Gimignano (left and above). Local men gather for their daily visit (below).



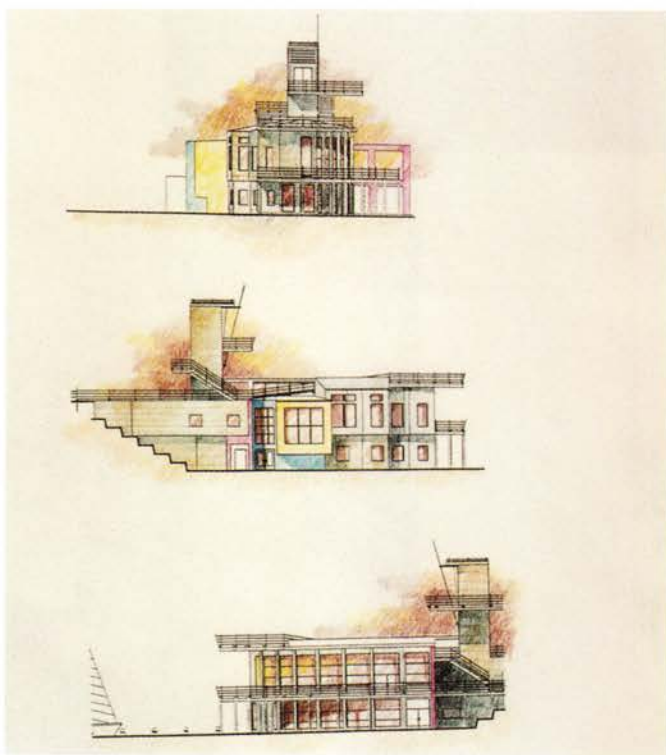


Harbor House
Lake Winnebago
High Cliff State Park
Wisconsin
Todd Biekkola

Designed for the shores of the largest inland lake in Wisconsin, this 8,000-square-foot harbor house bridges the gap between water and land, boaters and landlubbers, tourists and residents. Designer Todd Biekkola positions the structure for panoramic views of the lake, park and cliff. And he pulls his references from land and sea.

The front of the facility, facing the harbor, resembles the hull of a ship. A glass-and-steel façade frames lake views from within. At night the illuminated glass hull is a glowing beacon to ships on the distant water. Meanwhile, a tower with stairs and rooftop deck resembles a modified version of a traditional lighthouse. The back of the building, facing land, pulls references from agrarian architecture. Here the designer clads the façade in weathered wood to reflect traditional barns of the area's numerous farms.

The harbor house serves multiple purposes with its community room, lounge, offices for the Coast Guard and locker rooms. This is a place for boaters and the community as a whole to come together.



Architecture Minnesota has published an annual directory of landscape architectural firms for the past seven years as a means of informing the public and other design professionals of this rich resource of design talent and judgment.

Firms listed in this directory are those which are either owned and operated by members of the Minnesota Chapter of the American Society of Landscape Architects or are registered landscape architects practicing within AIA Minnesota firms.

Should you wish further information about the profession of landscape architecture, call the Minnesota Chapter of the American Society of Landscape Architects (MASLA) at 612/339-0797.

Peter Rand, FAIA
Publisher

LEGEND

AIA	American Institute of Architects
AICP	American Institute of Certified Planners
ASLA	American Society of Landscape Architects
FASLA	Fellow, American Society of Landscape Architects
PE	Professional Engineer
RA	Registered Architect
RLA	Registered Landscape Architect
RLS	Registered Land Surveyor

■ ARCHITECTURAL RESOURCES, INC.

704 East Howard Street
Hibbing, MN 55746
Tel: 218/263-6868
Fax: 218/722-6803
Other Offices: Duluth & Bemidji, MN
Established 1972

Earl Thedens
Richard Rose
Douglas Hildenbrand
Lyle Peters
Mark Wirtanen

RLA
RLA
AIA
AIA
AIA

Firm Personnel by Discipline

Landscape Architects	3
Architects	10
Other Professional	4
Technical	5
Administrative	4
Total	26

	Work %
Residential/decks/gardens	5
Site planning & development studies	25
Parks & open spaces	20
Urban design & streetscapes	25
Master/comprehensive planning	10
Waterfront planning	15
Hibbing Downtown Streetscape, Hibbing, MN; Community Square, Aurora, MN; Bemidji Lakefront, Bemidji, MN; Superior Parks Renovation, Superior, WI; Baywalk Duluth, Duluth, MN	

■ ATSR/LANDSCAPE ARCHITECTURE ARMSTRONG TORSETH SKOLD AND RYDEEN, INC.

4901 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/545-3731
Fax: 612/525-5613
Established 1944

Paul W. Erickson
Robert J. Gunderson
Todd R. Wichman
Patrick J. Sarver

AIA
ASLA
ASLA
ASLA

Firm Personnel by Discipline

Landscape Architects	4
Architect	30
Other Professional	12
Technical	42
Administrative	8
Total	96

Site planning & development studies	40
Parks & open spaces	10
Recreation areas (golf, ski, etc.)	20
Master/comprehensive planning	20
Irrigation design	10

Stillwater Senior High School, Stillwater, MN; Champlin Park Senior High School, Brooklyn Park, MN; Wayzata Senior High School, Plymouth, MN (under construction); Brooklyn Park Land Use Study, Brooklyn Park, MN; Oak Knoll Lutheran Church, Minnetonka, MN (under construction)

■ ARTEKA CORPORATION

15195 Martin Drive
Eden Prairie, MN 55344
Tel: 612/934-2000
Fax: 612/934-2247
Established 1970

Stewart K. Hanson
Todd Irvine
Forrest Jammer

ASLA
LA

Firm Personnel by Discipline

Landscape Architects	2
Other Professional	2
Technical	1
Administrative	4
Total	9

	Work %
Residential/decks/gardens	50
Master/comprehensive planning	10
Multi-family housing/PUDS	25
Office park/commercial	15

Arbor Pointe, Inver Grove Heights, MN; Boulevard Gardens, Town Homes & Condominiums, Minnetonka, MN; Osmonics, Inc., Minnetonka, MN; Steiner and Koppelman Parade Home, Minnetonka, MN; Emerald Homes Parade Home, Minnetonka, MN

■ DEAN BAILEY ASSOCIATES, INC.

15281 Creekside Court
Eden Prairie, MN 55346
Tel: 612/937-1124
Fax: 612/937-5711
Established 1992

J. Dean Bailey

ASLA

Firm Personnel by Discipline

Landscape Architects	1
Administrative	1
Total	2

	Work %
Residential/decks/gardens	90
Site planning & development studies	5
Multi-family housing/PUDS	5

The Frandsen Residence on the St. Croix River (entrance area, lighting, garden walks, planting); The Dolginow Residence, Edina, MN (arrival area, lighting, patios, site planting); The Buscher Residence, Minnetonka, MN (sculpture gardens, entrance court, swimming pool area); The Luther Residence, Edina, MN (arrival area, swimming pool area, flower gardens, site planting and lighting); Paper Warehouse Corporate Offices, St. Louis Park, MN (visitor entrance area, parking lot development, site planting).

■ BARTON-ASCHMAN ASSOCIATES, INC.

111 Third Avenue S., Ste. 350
Minneapolis, MN 55401
Tel: 612/332-0421
Fax: 612/332-6180
Established 1946
Other Offices in Principal Cities Throughout the U.S.

Wm. Scott Midness
Craig A. Churchward
Kathy C. Ryan
Frederick C. Dock
David B. Warzala

ASLA
ASLA
ASLA
AICP, PE
PE

Firm Personnel by Discipline

Landscape Architects	4
Civil Engineers	6
Traffic/Transportation Engineers	6
Environmental Scientists	4
Technical	3
Graphic Artist	1
Administrative	4
Total	28

	Work %
Site planning & development studies	20
Environmental studies (EIS)	5
Parks & open spaces	15
Urban design & streetscapes	25
Master/comprehensive planning	10
Transportation planning & design	15
Trails & bikeway planning	10

Woodville Community Vision & Master Plan, Woodville, WI; Montevideo Middle School, Montevideo, MN; German Park Renovation Master Plan, New Ulm, MN; Nicollet Avenue Corridor Study, Minneapolis, MN; Hennepin County Bicycle Transportation Plan, Hennepin County, MN

BRW, INC.

Thresher Square
700 3rd Street S.
Minneapolis, MN 55415
Tel: 612/370-0700
Fax: 612/370-1378
Established 1956
Other Offices: Seattle and Portland,
OR; San Diego, CA; Phoenix, AZ;
Denver, CO; Milwaukee, WI;
Orlando, FL

Jack Lynch ASLA
Miles Lindberg ASLA
Robert Kost ASLA
Thomas Harrington ASLA

Firm Personnel by Discipline
Landscape Architects 28
Other Professional/Technical 258
Administrative 57
Total 343

Work %
Site planning &
development studies 20
Environmental studies (EIS) 10
Parks & open spaces 15
Urban design & streetscapes 20
Recreation areas (golf, ski, etc.) 10
Master/comprehensive planning 15
Multi-family housing/PUDS 10

Uplands Condominiums at Parkers
Lake, Plymouth, MN; Tanner's Lake
Park, Oakdale, MN; Fortune Bay
Resort Casino, Tower, MN; Super
Valu Corporate Headquarters Master
Plan, Eden Prairie, MN; Visitor
Access Study, Yosemite National
Park, CA

**CLOSE GRANT
LANDSCAPE
ARCHITECTS**

610 Northwestern Building
275 E. Fourth Street
St. Paul, MN 55101
Tel: 612/222-5754
Fax: 612/222-1017
Established 1977

Bob Close ASLA
Deb Bartels RLA
Bruce Jacobson

Firm Personnel by Discipline
Landscape Architects 3.5
Administrative .5
Total 4

Residential/decks/gardens 10
Site planning &
development studies 10
Parks & open spaces 25
Urban design & streetscapes 25
Master/comprehensive planning 25
Commercial 5

Midtown Greenway, Master Plan &
Phase I Development, Minneapolis,
MN; University of Minnesota
Campus Master Plan, Twin Cities
Campuses; Hennepin/Dunwoody
Improvement Project, Minneapolis,
MN; Como Park Complex Master
Plan, St. Paul, MN; Trend
Enterprises, Site Master Plan,
New Brighton, MN

**COEN + STUMPF +
ASSOCIATES, INC.**

128 North Third Street
Minneapolis, MN 55401
Tel: 612/341-8070
Fax: 612/339-5327
Established 1992

Jon E. Stumpf RLA
Shane A. Coen LA
Matson Walter LA

Firm Personnel by Discipline
Landscape Architects 3
Administrative 1
Total 4

Work %
Residential/decks/gardens 10
Site planning &
development studies 20
Parks & open spaces 10
Urban design & streetscapes 30
Recreation areas (golf, ski, etc.) 10
Master/comprehensive planning 10
Spiritual/worship 10

Gooseberry Falls State Park; St.
Francis Peace Garden, Mayo Clinic;
Alice Smith Environmental
Courtyard; Jeffers Petroglyphs;
Long Lake Conservation Center.

**CUSTOM ROCK
INTERNATIONAL**

1156 Homer Street
St. Paul, MN 55116
Tel: 612/699-1345
Fax: 612/699-1830
Established 1971
Other Offices: Las Vegas, NV

Howard M. Merriam ASLA
Tony Nasvik

Firm Personnel by Discipline
Landscape Architects 1
Other Professional 2
Technical 3
Administrative 3
Total 9

Work %
Residential/decks/gardens 15
Parks & open spaces 10
Theme & specialty landscape
design & consulting
(simulated rockwork,
water features, decorative
concrete paving) 75

Spokane Transit Authority, Spokane,
WA; Casino Addition and Indoor
Climbing Wall, Shakopee
Midewakanton Sioux, Prior Lake,
MN; SI-Hotel, Spa Addition,
Stuttgart, GERMANY; T. Lewis
Residence, Wayzata, MN; RIO Hotel
and Casino, Pool Renovation, Las
Vegas, NV; Peppermill Hotel and
Casino, Swimming Pool Expansion,
Reno, NV

**DAHLGREN, SHARDLOW,
AND UBAN, INC.**

300 First Avenue N., Ste. 210
Minneapolis, MN 55401
Tel: 612/339-3300
Fax: 612/337-5601
Established 1976

C. John Uban ASLA
John W. Shardlow AICP
Geoffrey C. Martin ASLA
Wallace L. Case ASLA

Firm Personnel by Discipline
Landscape Architects 9
Other Professional 3
Planners and GIS Specialists 6
Administrative 2
Total 20

Work %
Site planning &
development studies 20
Environmental studies (EIS) 10
Parks & open spaces 10
Urban design & streetscapes 15
Recreation areas (golf, ski, etc.) 5
Master/comprehensive planning 20
Multi-family housing/PUDS 15
Expert testimony 5

Robbinsdale Downtown Master Plan
and Streetscape, Robbinsdale, MN;
Bismarck CBD Urban Design and
Redevelopment Plan, Bismarck, ND;
Excelsior Boulevard Streetscape
Master Plan, St. Louis Park, MN;
Two Rivers Historical Park, Anoka,
MN; City of Plymouth GIS Data
Base, Plymouth, MN

**DOVOLIS JOHNSON &
RUGGIERI, INC.**

1121 E. Franklin Avenue
Minneapolis, MN 55404
Tel: 612/371-6009
Fax: 612/371-1746

Dean Dovolis AIA
Brian Johnson AIA
John V. Ruggieri ASLA

Firm Personnel by Discipline
Landscape Architects 4
Architects 19
Administrative 2
Total 25

Work %
Site planning &
development studies 30
Parks & open spaces 10
Urban design & streetscapes 20
Recreation areas (golf, ski, etc.) 10
Master/comprehensive planning 10
Multi-family housing/PUDS 20

Lac Courte Oreilles Master Plan,
Hayward, WI; Mt. Airy Family
Housing Modernization, St. Paul,
MN; Clearwater Estates & Golf
Course, Clearwater, MN; Mt. Airy
Community Center, St. Paul, MN;
Bryn Mawr Park Playgrounds,
Minneapolis, MN; Plymouth Avenue
Townhouses Redevelopment,
Minneapolis, MN

ELLERBE BECKET, INC.

800 LaSalle Avenue
Minneapolis, MN 55402-2014
Tel: 612/376-2000
Fax: 612/376-2271
Established 1909
Other Offices: Washington, D.C.;
New York, NY; Kansas City, MO;
Los Angeles, CA; San Francisco, CA;
Tokyo, Japan

Bryan D. Carlson ASLA
Richard Varda AIA, ASLA
Krisan Osterby-Benson RLA
David Loehr AIA, AICP
Randy Manthey RLA

Firm Personnel by Discipline
Landscape Architects 8
Architects 273
Engineering 131
Construction 71
Corporate & Subsidiary Support 172
Total 647

Work %

Site planning &
development studies 60
Parks & open spaces 5
Urban design & streetscapes 15
Master/comprehensive planning 20

University of Notre Dame,
Framework Plan, Notre Dame, IN;
Carlson School of Management,
University of Minnesota,
Minneapolis, MN; Science Museum of
Minnesota, St. Paul, MN; Hubert H.
Humphrey Metrodome Plaza,
Minneapolis, MN

ERNST ASSOCIATES

122 West 6th Street
Chaska, MN 55318
Tel: 612/448-4094
Fax: 612/448-6997
Established 1977

Gene F. Ernst ASLA
Valerie J. Rivers ASLA

Firm Personnel by Discipline
Landscape Architects 2
Technical 1
Administrative 1
Total 4

Work %

Residential/decks/gardens 3
Site planning &
development studies 15
Parks & open spaces 27
Urban design & streetscapes 15
Recreation areas (golf, ski, etc.) 5
Master/comprehensive planning 5
Multi-family housing/PUDS 30

Datacard Corporation Party Patio,
Deck & Corporate & Sales Entry
Plaza, Minnetonka, MN; Chaska City
Hall Library; ConAgra Corporate
Campus, Omaha, NE; University of
St. Thomas, Minneapolis, MN;
WestHealth Campus, Plymouth, MN

DAMON FARBER ASSOCIATES

253 Third Avenue S.
Minneapolis, MN 55415
Tel: 612/332-7522
Fax: 612/332-0936
Established 1981

Damon Farber FASLA
Joan MacLeod RLA
Todd Johnson ASLA

Firm Personnel by Discipline
Landscape Architects 6
Administrative 1
Total 7

Work %

Residential/decks/gardens 5
Site planning &
development studies 25
Parks & open spaces 10
Urban design & streetscapes 25
Recreation areas (golf, ski, etc.) 5
Master/comprehensive planning 25
Multi-family housing/PUDS 5

Cargill Corporate Headquarters
Master Plan, Minnetonka, MN; Canal
Park Drive Urban Design &
Streetscape Improvements, Duluth,
MN; University of Minnesota
Campus Entry and Pleasant Street
Master Plan, Minneapolis, MN;
Winnetka Avenue Streetscape,
Golden Valley, MN; Mill Pond Park
Comprehensive Plan & Recreational
Trail Systems, Austin, MN

HAMMEL GREEN AND ABRAHAMSON, INC.

1201 Harmon Place
Minneapolis, MN 55403
Tel: 612/337-4100
Fax: 612/332-9013
Established 1953
Other Offices: Milwaukee, WI;
Rochester, MN

Thomas R. Oslund ASLA
Gary M. Fishbeck ASLA

Firm Personnel by Discipline
Landscape Architects 9
Architects 85
Other Professional 28
Technical 25
Other 63
Administrative 54
Total 264

Work %

Residential/decks/gardens 3
Site planning &
development studies 15
Parks & open spaces 27
Urban design & streetscapes 15
Recreation areas (golf, ski, etc.) 5
Master/comprehensive planning 5
Multi-family housing/PUDS 30

Datacard Corporation Party Patio,
Deck & Corporate & Sales Entry
Plaza, Minnetonka, MN; Chaska City
Hall Library; ConAgra Corporate
Campus, Omaha, NE; University of
St. Thomas, Minneapolis, MN;
WestHealth Campus, Plymouth, MN

Residential/decks/gardens 5
Site planning &
development studies 35
Parks & open spaces 10
Urban design & streetscapes 15
Master/comprehensive planning 35

Appleton Memorial Park and
Arboretum Garden, Appleton, WI;
General Mills Executive Courtyard,
Golden Valley, MN; Campus Master
Plan, University of Minnesota at
Morris and Duluth; Marine
Education Center at Minnesota
Zoological Gardens, Apple Valley,
MN; Milwaukee Zoo Master Plan,
Milwaukee, WI; Kuwait American
Foundation Headquarters Master
Plan, Washington, D.C.

HAUCK ASSOCIATES, INC.

3620 France Avenue S.
St. Louis Park, MN 55416
Tel: 612/920-5088
Fax: 612/920-2920
Established 1990

Robert P. Hauck ASLA

Firm Personnel by Discipline
Landscape Architects 2
Other Professional 1
Administrative 1
Total 4

Work %

Residential/decks/gardens 80
Recreation areas (golf, ski, etc.) 10
Neighborhood amenities &
renovation 10

Edina Country Club (monumentation,
signage, lighting, brick paving,
planting), Edina, MN; Parkers Lake
Suncourt Homes (streetscape &
intimate-scaled private yards),
Plymouth, MN; Ashton Residence
(pond/waterfall, prairie gardens,
wildlife area), Medina, MN; Hanson
Residence (pond/fountains, arrival
area/entrance remodeling), Hopkins,
MN; Moore Residence (estate arrival
area, entrances, swimming pool area,
porch addition), Orono, MN

HOISINGTON KOEGLER GROUP INC.

7300 Metro Boulevard, #525
Minneapolis, MN 55439
Tel: 612/835-9960
Fax: 612/835-3160
Established 1982

Fred Hoisington AICP
Mark Koegler ASLA
Michael Schroeder ASLA

Firm Personnel by Discipline
Landscape Architects 6
Urban Planners 2
Administrative 1.5
Total 9.5

Work %

Site planning &
development studies 20
Parks & open spaces 20
Urban design & streetscapes 35
Master/comprehensive planning 20
Multi-family housing/PUDS 5

Brooklyn Boulevard Streetscape,
Brooklyn Park, MN; H.B. Fuller
Corporate Center Master Plan &
Nature Preserve, Vadnais Heights,
MN; Central Middle School Athletic
Field Design, Eden Prairie, MN; Bush
Lake Beach Park Redevelopment,
Bloomington, MN; Downtown
Development Guide, Ottumwa, IA;
City Center Vision 2002 Plan,
Chanhassen, MN; City Center
Concept Plan, Plymouth, MN;
Mississippi River Pathway, Elk River,
MN; Virginia Comprehensive Plan,
Virginia, MN

KEENAN & SVEIVEN INC.

14411 McGinty Road West
Wayzata, MN 55391
Tel: 612/931-3122
Fax: 612/931-0063
Established 1990

Kevin J. Keenan ASLA

Firm Personnel by Discipline
Landscape Architects 2
Technical 6
Master Gardeners 3
Administrative 1
Total 12

Work %

Residential/decks/gardens 80
Public art 20

Sharma Residence, North Oaks, MN;
St. Paul Cultural Garden, St. Paul,
MN; University of Minnesota Green
Hall Artwork Project, St. Paul, MN;
Lundell Residence, Medina, MN;
Gallagher Residence, Edina, MN

DAVID A. KIRSCHT ASSOCIATES, INC.

5500 Lincoln Drive
Edina, MN 55436
Tel: 612/938-4030
Fax: 612/938-0026
Established 1972

David A. Kirscht
John M. Johnson

ASLA
RLA

Firm Personnel by Discipline

Landscape Architects 2
Administrative 1
Total 3

Work %

Residential/decks/gardens 5
Site planning & development studies 15
Golf courses 45
Master/comprehensive planning 10
Multi-family housing/PUDS 10
Office/commercial 15

Christ The King Lutheran Church, Mankato, MN; TL Systems World Headquarters, Brooklyn Park, MN; Village Green & The Meadows Golf Courses, Moorhead, MN; Wadena Municipal Golf Course, Wadena, MN; West St. Paul Executive Golf Course, West St. Paul, MN

LANDMARK DESIGN, INC.

105 Orono Orchard Road
Long Lake, MN 55356
Tel: 612/476-6765
Fax: 612/475-8984
Established 1979

Greg Kellenberger
Dana Kellenberger

ASLA

Firm Personnel by Discipline

Landscape Architects 2
Technical 1
Administrative .5
Total 3.5

Work %

Residential/decks/gardens 20
Parks & open spaces 5
Multi-family housing/PUDS 5
Residential developments: site planning & landscape design 70

Bearpath Golf and Country Club, Eden Prairie, MN; Residential Developments: Ashcroft, Minnetonka, MN; Wildridge, Mahtomedi, MN; Woodlands, Eagan, MN; Private Residences: Scouler Residence, Chanhassen, MN; Lowe Residence, Orono, MN; Hauck Residence, North Oaks, MN

LSA DESIGN, INC.

126 North Third Street
Minneapolis, MN 55401
Tel: 612/339-8729
Fax: 612/339-7433
Established 1989

James Lasher
Harold Skjelbostad
P. J. Andersen
Kyle Williams

ASLA
ASLA
—
AIA

Firm Personnel by Discipline

Landscape Architects 3
Architect 3
Administrative 2
Total 8

Work %

Residential/decks/gardens 5
Site planning and development studies 10
Parks & open space 10
Urban design & streetscapes 5
Recreation areas 5
Master/comprehensive planning 15
Transit facilities planning 50

Burnsville Transit Station, Burnsville, MN; Southwest Metro Transit Station, Eden Prairie, MN; Hopkins School District Athletic Facilities Planning and Design, Hopkins, MN; Medtronic Facilities Master Plan, Fridley, MN; Folwell Park, Minneapolis Park and Recreation Board, Minneapolis, MN; Plymouth Metrolink Park and Ride Study, Plymouth, MN

MARTIN & PITZ ASSOCIATES, INC.

1409 Willow Street, Ste. 110
Minneapolis, MN 55403
Tel: 612/871-0568
Fax: 612/871-6520
Established 1983

Roger Martin
Marjorie Pitz

FASLA
ASLA

Firm Personnel by Discipline

Landscape Architects 2
Other Professional/Technical 1
Total 3

Work %

Residential/decks/gardens 5
Site planning & development studies 25
Parks & open spaces 20
Urban design & streetscapes 25
Master/comprehensive planning 20

Hennepin Avenue Strategic Plan, Minneapolis, MN; Upper Iowa University, Fayette, IA; Sensory Garden, Minnesota Landscape Arboretum; Nicollet Island Park and Adjacent Riverfront Planning, Minneapolis, MN; Festival Park, Ironwood, USA

MELCHERT/BLOCK ASSOC., INC.

367 E. Kellogg Blvd.
St. Paul, MN 55101
Tel: 612/228-9564
Fax: 612/223-5857
Other Offices: Hudson, WI
Tel: 715/386-7736
Established 1984

Ronald L. Melchert
Jack M. Walkky

ASLA
PE

Firm Personnel by Discipline

Landscape Architects 4
Registered Landscape Surveyors 3
Civil Engineers 5
Administrative 2
Total 14

Work %

Site planning & development studies 45
Environmental studies (EIS) 5
Parks & open spaces 10
Recreation areas (golf, ski, etc.) 10
Master/comprehensive planning 10
Multi-family housing/PUDS 20

Soaring Eagle Casino/Hotel Resort Complex; University of Wisconsin LaCrosse Student Life Center; University of Wisconsin Eau Claire McIntyre Library; Minnesota Zoo Central Plaza Renovation; Hubert H. Humphrey Metrodome Plaza.

RLK ASSOCIATES, LTD.

6110 Blue Circle Drive
Minnetonka, MN 55343
Tel: 612/933-0972
Fax: 612/933-1153
Established 1991

John E. R. Dietrich
Richard L. Koppy
Eric R. Johnson
Steven B. Schwanke

ASLA
PE
RLA
AICP

Firm Personnel by Discipline

Landscape Architects 7
Architect 1
Other Professional 14.5
Technical 7.5
Administrative 6
Total 36

—

Site planning & development studies 10
Environmental studies (EIS & EAW) 5
Parks & open spaces 5
Urban design & streetscapes 5
Recreation areas (golf, ski, etc.) 5
Master/comprehensive planning 5
Multi-family housing/PUDS 20
Single family residential & commercial/retail 45

Cleveland Park, Minneapolis, MN (MPRB); Hartford Place, Residential/Commercial; Roseville Civic Center, Roseville, MN; Wayzata Medical Center, Wayzata, MN; Maplewood Retail Center, Maplewood, MN

SANDERS WACKER WEHRMAN BERGLY, INC.

365 E. Kellogg Boulevard
St. Paul, MN 55101-1411
Tel: 612/221-0401
Fax: 612/297-6817
Established 1979

William D. Sanders RLA, FASLA
Larry Wacker RLA, ASLA
John Bergly

Firm Personnel by Discipline

Landscape Architects 6
Other Professional 2
Administrative 1.5
Total 9.5

Work %

Residential/decks/gardens 5
Site planning & development studies 10
Environmental studies (EIS) 5
Parks & open spaces 20
Urban design & streetscapes 20
Recreation areas (golf, ski, etc.) 10
Master/comprehensive planning 10
Multi-family housing/PUDS 10
Cemetery planning 10

Minnehaha Park, Minneapolis, MN; Capitol Area Architectural & Planning Board, St. Paul, MN; Cloquet Downtown Streetscape, Cloquet, MN; Arlington High School, St. Paul, MN; Sandstone Comprehensive Plan, Sandstone, MN

SAVANNA DESIGNS, INC.

3511 Lake Elmo Avenue
Lake Elmo, MN 55042
Tel: 612/770-6910
Fax: 612/770-6910

Jim C. Hagstrom ASLA

Firm Personnel by Discipline

Landscape Architect	1
Technical	2
Administrative	.5
Total	3.5

Work %

Residential/decks/gardens	75
Site planning & development studies	10
Parks & open spaces	10
Master/comprehensive planning	5

Brandt Residence, Stillwater, MN;
Holmen Residence, Dellwood, MN;
Irvine Residence, Dellwood, MN; St.
Jude Medical, St. Paul, MN; YMCA
Camp St. Croix, Hudson, WI

STEFAN / LARSON ASSOCIATES

807 N. Fourth Street
Stillwater, MN 55082
Tel: 612/430-0056
Fax: 612/439-1179
Established 1989

Amy Stefan RLA
Brian Larson AIA
Tim Stefan AIA

Firm Personnel by Discipline

Landscape Architects	1
Architects	2
Other Professional	2
Total	5

Work %

Residential/decks/gardens	20
Parks & open spaces	25
Urban design & streetscapes	20
Multi-family housing/PUDS	5
Site design	35

Brooklyn Center Park/Ride and
Park, Brooklyn Center, MN; Pioneer
Park Masterplan, Stillwater, MN;
Computing Devices International
Entry Court and Canopy,
Bloomington, MN; Horn Towers
Courtyard and Site Design,
Minneapolis, MN; Pratt Village
Green Plaza and Amphitheatre,
Minneapolis, MN

SRF CONSULTING GROUP INC.

One Carlson Parkway North
Minneapolis, MN 55447
Tel: 612/475-0010
Fax: 612/475-2429
Established 1971

Barry Warner ASLA, AICP
Bob Rosco PE
Peter Fausch PE
Charleen Zimmer AICP
Tom Thorson ASLA

Firm personnel by Discipline

Landscape Architects	5
Planning/Environmental	20
Traffic/Transportation	20
Municipal Engineering	20
Highway Engineering	25
Structural	6
Technical	18
Administrative	4
Total	118

Work %

Site planning & development studies	15
Environmental studies (EIS)	15
Parks & open spaces	25
Urban design & streetscapes	30
Master/comprehensive planning	10
Multi-family housing/PUDS	5

29th Street/Midtown Greenway,
Minneapolis, MN; Cedar Lake Park
Trail, Minneapolis, MN; Park
Planning and Design, Lakeville, MN;
Community Traffic Calming Study,
Hutchinson, MN; Urban Design
Plan, Shepard Road, St. Paul, MN

SYMME MAINI & MCKEE ASSOCIATES

801 Nicollet Mall, Suite 1600
Minneapolis, MN 55402
Tel: 612/332-3654
Fax: 612/332-3626
Established 1955
Other Offices: Cambridge, MA

Gregory Fern
James Wolahan PE
Michael Holland PE
Stefan Helgeson AIA, ASLA
Paul Filiatrault ASLA

Firm Personnel by Discipline

Landscape Architects	4
Architect	40
Other Professional	60
Technical	40
Civil/Site Planner	6
Administrative	15
Total	165

Site planning & development studies 30
Interior landscape/plantings 10
Master/comprehensive planning 30
Corporate parks and headquarters 40
Christian Books, FSI, Boulevard
Gardens, Asset Marketing,
First Bank

TOLTZ, KING, DUVAL, ANDERSON AND ASSOCIATES, INC.

1500 Piper Jaffray Plaza
444 Cedar Street
St. Paul, MN 55101-2140
Tel: 612/292-4400
Fax: 612/292-0083
Established 1910

Duane Prew PE
James Voyer PE
Westly Hendrickson AIA, AICP
William Armstrong AIA
Richard Gray ASLA

Firm Personnel by Discipline

Landscape Architects	4
Architects	11
Other Professional	53
Technical	55
Administrative	24
Total	147

Work %

Site planning & development studies	15
Parks & open spaces	25
Urban design & streetscapes	20
Recreation areas (golf, ski, etc.)	10
Master/comprehensive planning	10
Athletic fields & tracks	20

Hill-Murray School Outdoor Athletic
Facilities Master Plan, Maplewood,
MN; Concordia College Athletic
Field Development, St. Paul, MN;
Lewis University Recreation Facility
& Pedestrian Mall, Romeoville, IL;
Wabasha Street Bridge Streetscape
& Amenities, St. Paul, MN;
Scott Co. Highway 44 Landscape
Improvements, Prior Lake, MN

WESTWOOD PROFESSIONAL SERVICES, INC.

14130 West Trunk Highway 5,
Suite 220
Eden Prairie, MN 55344-2039
Tel: 612/937-5150
Fax: 612/937-5822
Established 1972
Other Offices: Buffalo, MN

Tim Erkkila ASLA
Greg Kopischke ASLA
Ed Hasek ASLA
Dennis Marhula PE
Marty Weber RLS

Firm Personnel by Discipline

Landscape Architects	6
Other professional	17
Technical	33
Administrative	4
Total	60

Work %

Site planning & development studies	20
Environmental studies (EIS)	5
Parks & open spaces	10
Urban design & streetscapes	5
Master/comprehensive planning	10
Multi-family housing/PUDS	20
Civil & traffic engineering; surveying, wetland and environmental studies	30

Maple Grove Parks Site and System
Plans, Maple Grove, MN; Edinburgh
Mixed-Use Site PUD, Brooklyn
Park, MN; Earle Brown Farm
Heritage Center and Streetscape,
Brooklyn Center, MN; Woodbury
Village Shopping Center, Woodbury,
MN; First Bank Systems Operations
Center, St. Paul, MN

ROBERT H. WILLIAMS, R.L.A.

3300 Forty-Third Avenue S.
Minneapolis, MN 55406-2253
Tel: 612/722-1491
Fax: 612/722-7659
Established 1994
Internet Address:
ROBHWLMS@AOL.COM

Rob Williams RLA

Work %

Residential/decks/gardens	20
Parks & open spaces	55
Master/comprehensive planning	25

The Minnehaha Park Renovation
Plan (with S.W.W.B.), Minneapolis,
MN; Stewart Park Master Plan,
Minneapolis, MN; Stillwater's
Pioneer Park Master Plan
(with S.L.A.), Stillwater, MN; Park
Siding Park, Minneapolis, MN; The
Geiger Residence, Lynnhurst
Neighborhood, Minneapolis, MN

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You can't

drive to work,  walk the dog, cook that pot roast, bake that bread, shower after jogging, watch 60 Minutes, toast the toast, brew the coffee, mow  the lawn, call your mother, be cool in the summer, wash your sweat suit,  dine out, play computer games,  medicate your cold, build your new house, listen to "old blue eyes", ride your  bike, videotape that wedding, vacuum the rug, recycle your garbage, play baseball at night, be warm in the winter, fly to Hawaii,  check the time, flush the toilet, buy a fresh tomato in winter, fill that cavity, use the cash machine

without an engineer.

For a free copy of the Consulting Engineers directory contact:
Consulting Engineers Council of Minnesota
5407 Excelsior Blvd., Suite A
Minneapolis, MN 55416
(612) 922-9696

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H. Robert Anderson & Associates, Inc. would like to thank the many Architects & Engineers that have given us the opportunity to handle their Professional Liability Insurance Program.

We would like to handle yours also!

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H. Robert Anderson & Associates, Inc.

4600 W. 77th Street
Ste. 105
Edina, MN
55435

(612) 893-1933
Fax 893-1819

With this issue **Architecture Minnesota** presents our fourth directory of those Minnesota firms which provide consultative engineering services. Principals of these firms are members of the Consulting Engineers Council of Minnesota or of AIA Minnesota.

Engineers provide those critical design skills which enable our entire built environment to be structurally safe, comfortably warm and well lit. They also design our highways and bridges, water treatment facilities and power generation plants.

In Minnesota, you will find there is a wealth of engineering talent available for your next project. Study this directory and call either the Consulting Engineers Council at 612/922-9696 or AIA Minnesota at 612/338-6763 for additional information and assistance.

Peter A. Rand, FAIA
Publisher

LEGEND

PE	Professional Engineer
AIA	American Institute of Architects
FAIA	Fellow, American Institute of Architects
ASLA	American Society of Landscape Architects
FASLA	Fellow, American Society of Landscape Architects
RLS	Registered Land Surveyor

● ARMSTRONG, TORSETH, SKOLD AND RYDEEN, INC.

4901 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/545-3731
Fax: 612/525-3289
Established 1944

James E. Rydeen	AIA
Paul W. Erickson	AIA
James N. Riess	PE
Robert A. Martini	PE
Terry L. Stofferahn	PE

Firm Personnel by Discipline	
Mechanical Engineers	29
Electrical Engineers	12
Architects	62
Other Professional	19
Administrative	11
TOTAL	133

ATS&R Expertise: Quality control/coordination during design, construction, post-occupancy; design of HVAC, plumbing, Direct Digital Control Systems; design of electrical systems including computer facilities, communications; energy conservation, including active/passive solar, heat exchange systems, geo-thermal heat pumps, variable air volume, earth berthing, ice storage, natural daylighting, energy management systems, energy efficient lighting, heat pumps.

Champlin Park High School, Brooklyn Park, MN; Stillwater Area High School, Stillwater, MN; Farmington Middle School, Farmington, MN; Rush Creek Elementary School, Maple Grove, MN; Minnetonka Lutheran Church, Minnetonka, MN

● BKBM ENGINEERS, INC.

219 North 2nd Street, #200
Minneapolis, MN 55401
Tel: 612/333-7101
Fax: 612/342-9482
Established 1967
(as Bakke & Kopp)
Other Offices: Marshall and Rochester, MN

Charles L. Ballou	PE
Thomas J. Downs	PE
Ronald J. LaMere	PE
John A. Clark	PE

Firm Personnel by Discipline	
Civil Engineers	2
Structural Engineers	13
Mechanical Engineers	5
Electrical Engineers	1
Technical	13
Administrative	4.5
TOTAL	38.5

Civil, electrical, mechanical and structural consulting services for buildings and bridges. Design of heating, ventilating, air conditioning, electrical power distribution, lighting systems, and energy management studies for industrial, commercial and institutional facilities. Structural design and investigations for buildings, bridges, heavy and special structure design together with field surveying including construction management service. Historic building preservation, Evaluation studies, Building Commissioning, Railroad engineering, Bridges-track-facilities.

Lakeville High School, Lakeville, MN; Carver County Government Center, Chaska, MN; Target Midwest Distribution Center, Oconomowoc, WI; Marshall Municipal Utilities, Marshall, MN; Rochester Public Library, Parking Ramp and Skyway, Rochester, MN

● BONESTROO, ROSENE, ANDERLIK & ASSOCIATES, INC.

2335 W. Hwy. 36
St. Paul, MN 55113
Tel: 612/636-4600
Fax: 612/636-1311
Established 1956
Other Offices: Rochester, MN; Milwaukee, WI

Otto Bonestroo	PE
Marvin Sorvala	PE
Thomas Noyes	PE
David Loskota	PE
Robert Pfefferle	PE

Firm Personnel by Discipline	
Civil Engineers	69
Structural Engineers	6
Electrical Engineers	1
Architects	4
Other Professional	12
Technical	55
Administrative	17
TOTAL	164

Specializing in transportation planning and traffic engineering; stormwater and water resources planning, design and management; water supply, storage, distribution and treatment; wastewater collection and treatment; roads, bridges and airports; parks, aquatic centers and ice arenas. Services offered include feasibility studies, master planning, detailed design, project surveying, construction inspection/administration, GIS consulting.

Prairie Waterway Restoration, Farmington, MN; West Creek Stage 3 Flood Control, Chaska, MN; Lake Pokegama Sanitary Sewer Collection System, MN; Cedar Grove Area Street Reconstruction, Eagan, MN; 80-Acre Athletic Complex, Ice Arena and Fieldhouse, Woodbury, MN

● DAVID BRASLAW ASSOCIATES, INC.

1313 5th Street SE, Ste. 322
Minneapolis, MN 55414
Tel: 612/331-4571
Fax: 612/331-4572
Established 1971

Dr. David Braslaw	PE
-------------------	----

Firm Personnel by Discipline	
Acoustical Engineers	1
Other Professional/Technical	1
Administrative	1
TOTAL	3

Architectural and performance space acoustics, building and partition noise isolation, environmental noise control, exterior facade attenuation for aircraft and other sources, sound system design, industrial noise control, acoustic and noise measurements, control of vibration, blasting and small arms ranges, land use compatibility, environmental assessments, impact statements and indirect source permits.

Combined Operations Center/Heathrow, London, England; Dual Track EIS (air quality assessment), Minneapolis/St. Paul, MN; Normandale Community College (noise control/HVAC), Bloomington, MN; St. Joseph Church (acoustic design), Lino Lakes, MN; Mille Lac Reservation (school building acoustics), Mille Lacs Reservation, MN

● **BRAUN INTERTEC CORPORATION**

8000 Town Line Avenue South
Minneapolis, MN 55439-0108
Tel: 612/946-6000
Fax: 612/946-6190
Established 1957
Other Offices:
Minneapolis, Rochester, St. Cloud
and St. Paul, MN; Chicago, IL;
Billings, MT; Bismarck and Fargo,
ND; Portland, OR and La Crosse, WI

J.S. Braun PE
George D. Klumpke PE
Cameron G. Kruse PE
Larry A. Clem CPA
Glenn E. Purdue

Firm Personnel by Discipline
Civil Engineers 50
Other Engineers 19
Architects 1
Other Professional 5
Technical 314
Administrative 123
TOTAL 512

Braun Intertec is an engineering and environmental consulting and testing company providing services to public and private clients from 20 office locations in six states. Services include geotechnical materials and environmental engineering, infrastructure and pavement management; site assessments, natural resource management and air quality management, industrial hygiene services and laboratory testing and analyses.

934th Airlift Wing, Minneapolis/
St. Paul International Airport, MN;
Kwik Trip, Multiple Sites in
Minnesota, Iowa and Wisconsin;
MN/Road Research Project,
Monticello, MN; U. S. Postal Service,
Multiple Sites in Minnesota;
Hiawatha Avenue Reconstruction,
Minneapolis, MN

● **CARROLL, FRANCK & ASSOCIATES**

1357 Highland Parkway
St. Paul, MN 55116
Tel: 612/620-9162
Fax: 612/690-9156
Established 1985

Anne R. Carroll MP
Bruno M. Franck Ph.D., PE

Firm Personnel by Discipline
Structural Engineers 1
Other Professional 1
TOTAL 2

Structural engineering services for religious, educational, residential, and industrial buildings. Expertise in design with wood for historical or contemporary architecture using recycled lumber or modern structural wood components; design of masonry, steel and concrete structures. Technical writing of reports, analyses, government regulations, permits, specifications, etc.

K & J Dayton's Residence,
Minneapolis, MN; J. B. Gooddman
Residence, Minnetonka Beach, MN;
Beautiful Savior Lutheran Church,
New Hope, MN; Prairie Wood
Environmental Learning Center,
Kandiyohi County, MN; Long Lake
Conservation Center, Palisade, MN

● **CLARK ENGINEERING CORPORATION**

2815 Wayzata Boulevard
Minneapolis, MN 55405
Tel: 612/374-4740
Fax: 612/374-4749
Established 1937
Other Offices: Aberdeen and Rapid
City, SD; Fort Meyers, FL

Charles E. Hansen PE
Larry G. McMurry PE
Hadi Sajadi PE
Michael A. Fowler PE
Leslie G. Renschler

Firm Personnel by Discipline
Civil Engineers 17.5
Structural Engineers 11
Other Professional 4
Technical 34.5
Administrative 9.5
TOTAL 76.5

Structural Engineering, Municipal/
Environmental Engineering, Transportation Engineering, Surveying,
Construction Services, Facility/Site
Development

Green Bay Packaging Corrugator
Plant, Coon Rapids, MN; Hormel
Foods Plant Expansion, Austin, MN;
Remmele Engineering Co. Plant
Addition, Monticello, MN; Wayzata
Senior High School, Wayzata, MN;
Maple Grove Senior High School,
Maple Grove, MN

● **DARG BOLGREAN, MENK, INC.**

7575 Golden Valley Road., Ste. 210
Golden Valley, MN 55427
Tel: 612/544-8456
Fax: 612/544-8914
Established 1966.

Lloyd W. Darg PE
Gene Bolgrean PE
Harry D. Menk PE

Firm Personnel by Discipline
Civil Engineers 4
Technical 1
Administrative 1
TOTAL 6

With expertise in steel, concrete, masonry and wood structural systems, Darg, Bolgrean, Menk, Incorporated has engineered well over 3000 projects nationwide including: commercial, academic, office/warehouse, industrial, renovation/restorations, multiple housing, government, medical, religious, and parking facilities for the architectural profession, contractors, fabricators and building owners, managers and developers.

West Salem Elementary School,
West Salem, WI; Net Med Office
and Parking Ramp, Burnsville, MN;
Cargill Office Building, Fargo, ND;
Best Buy Headquarters Addition,
Eden Prairie, MN; Raven Golf
Clubhouse, Phoenix, AZ

● **DOLEJS ASSOCIATES INC.**

1624 North Riverfront Drive
Mankato, MN 56001
Tel: 507/625-7869 or 612/375-1936
Fax: 507/388-9225
Established 1977
Other Offices: Burnsville, MN
(612/435-6790)

Joseph M. Dolejs PE
David A. Kroells

Firm Personnel by Discipline
Mechanical Engineers 1
Technical 8
Administrative 1.5
TOTAL 11

Dolejs Associates provides mechanical and electrical design services for the building industry. An experienced and stable staff provides expertise in the HVAC, plumbing, fire protection, temperature control, lighting power, communication and life safety systems. Recent projects include schools, restaurants, athletic facilities, motels, engineered housing, churches, ADA and energy conservation retrofits.

Blue Earth Area High School, Blue
Earth, MN; Burnsville Post Office,
Burnsville, MN; Burnsville Read Life
Co-op, Burnsville, MN; Dakota
Meadows Middle School, Mankato,
MN; Luverne Veterans' Home,
Luverne, MN

● **DUNHAM ASSOCIATES, INC.**

8200 Normandale Blvd., Ste. 500
Minneapolis, MN 55437-1060
Tel: 612/820-1400
Fax: 612/820-2760
Established 1960
Other Offices: Rapid City, SD;
Las Vegas, NV

George F. Dunham PE
Kathleen M. Kolbeck PE
Dale J. Holland PE
Ronald L. Feldhaus PE
Brion P. Szwed PE

Firm Personnel by Discipline
Structural Engineers 10
Mechanical Engineers 44
Electrical Engineers 26
Other Professional 28
Administrative 22
TOTAL 130

Dunham Associates, Inc. is a multifaceted consulting engineering firm that offers mechanical, electrical and structural engineering and communications systems design services. Specialized areas include health care, retail, airport, hotel/casino, skyways, airport, data centers, clean rooms, schools, master planning, and energy studies.

Minneapolis/St. Paul International
Airport FIS (Federal Inspection
Services) Facility, MN; West Health
Campus, Plymouth, MN; Soaring
Eagle Casino/Hotel, Mt. Pleasant,
MI; Minneapolis Community College
Master Planning, Minneapolis, MN;
Medford Outlet Center, Phase II,
Medford, MN

● **ELLERBE BECKET INC.**

800 LaSalle Avenue
Minneapolis, MN 55402-2014
Tel: 612/376-2000
Fax: 612/376-2271
Established 1909
Other Offices: Kansas City, MO;
Washington, DC; New York, NY;
San Francisco, CA.

Robert A. Degenhardt PE
J. Douglas Maust PE
Allan Wenzel PE
Mark W. Duoma PE
Robert T. Brown PE

Firm Personnel by Discipline

Civil Engineers	10
Structural Engineers	31
Mechanical Engineers	80
Electrical Engineers	50
Architects	155
Other Professional	32
Technical	115
Administrative	190
TOTAL	660

Full spectrum engineering, architectural and planning firm offering complete services for commercial, corporate, educational, sports, industrial, health care and public governmental fields. Master planning, feasibility studies and programming for facilities and operations in a broad field of practice. Recent projects include commercial and corporate office buildings, libraries, hotels and resorts, arenas, stadiums, collegiate facilities, medical facilities, central energy plants and energy retrofit work. The practice is international in scope.

University of Minnesota, Carlson School of Management, Minneapolis, MN; Dow Global Data Center, Midland, MI; First Avenue Cooling Plant, Minneapolis, MN; Crossroads Arena (Buffalo Sabers), Buffalo, NY; Moscow Bank of the Russian Federation Savings Bank, Moscow, Russia

● **ENGINEERING DESIGN GROUP OF MINNESOTA, INC.**

547 Lovell Avenue
Roseville, MN 55113
Tel: 612/481-9195
Fax: 612/481-9195
Established 1989

Sean K. Hallett PE

Firm Personnel by Discipline

Civil Engineers	1
Structural Engineers	1
Technical	.5
Administrative	.5
TOTAL	3

Structural engineering of commercial, industrial, residential and curtainwall systems. Complete design and analysis of contract documents for building systems. Facility engineering of jib, mono, crane and bridge rail systems. Forensic non-destructive inspections of all structures. Heavy equipment foundation engineering. Hazardous explosive room engineering. Structural design of amusement rides. Structural product design.

Single and Multiple Family Housing including *Life Magazine Dream House*, Isanti, MN and Premanufactured Housing in various locations around the world; River Oaks Golf Clubhouse Expansion, Cottage Grove, MN; Pedestrian Bridge, Bloomington, MN; Amusement Rides, Chicago, IL., Atlanta, GA., Denver, CO., Shakopee, MN., Phoenix, AZ

● **ERICKSEN ELLISON and Associates Inc.**

2635 University Ave. W., Ste. 200
St. Paul, MN 55114-1500
Tel: 612/641-0311
Fax: 612/641-0029
Established 1954

Bruce K. Johnson PE
William F. Thiesse PE
Richard A. Hoag

Firm Personnel by Discipline

Mechanical Engineers	6
Electrical Engineers	2
Technical	24.5
Administrative	5
TOTAL	37.5

Mechanical and electrical design of HVAC, plumbing, ground source heat pumps, fire protection, specialty lighting, power, voice/data communications, and security/surveillance for a variety of building types. EEA has extensive experience in design of correctional facilities, libraries, educational facilities, data processing centers, manufacturing facilities, clean rooms, aircraft engine test facilities, and airports.

Pleasant Hill Library, Hastings, MN; Arlington Senior High School, St. Paul, MN; Stillwater Prison Industries and Education Building Renovation, MCF; Airport Equipment Maintenance Building Metropolitan Airport Commission; Library Archives and Overflow Facility, University of Minnesota

● **ERICKSEN, ROED AND ASSOCIATES, INC.**

300 First Avenue North, Suite 420
Minneapolis, MN 55401
Tel: 612/342-9210
Fax: 612/342-9214
Established 1985

Alfred C. "Bud" Ericksen PE
Thomas E. Amundson
James D. Roed PE
Robert A. Curtis PE

Firm Personnel by Discipline

Structural Engineers	11
Other Professional/Technical	10
Administrative	3
TOTAL	24

Professional Structural Engineering services from planning through construction for corporate, commercial, educational, health care, industrial, sports facilities, parking ramps, aircraft engine test facilities, and restoration engineering. We provide construction documents, specifications, construction observation, existing building analysis reports and forensic engineering.

Minneapolis Federal Courthouse, Minneapolis, MN; Target Center, Minneapolis, MN; University of Minnesota Basic Sciences, Minneapolis, MN; North Memorial Hospital Expansion, Minneapolis, MN; AT&T Office Tower, Minneapolis, MN

● **FOSS ASSOCIATES**

810 4th Avenue S.
Moorhead, MN 56561
Tel: 218/236-1202
Fax: 218/236-4945
Established 1898
Other Offices: Fargo, ND

Paul Jacobson PE
Charles Zeltinger RLS
Bill Cowman AIA
Willis Stelter AIA
Bob Ames AIA

Firm Personnel by Discipline

Structural Engineers	1
Land Surveyor	1
Architects	7
Other Professional	6
Technical	.5
Administrative	1.5
TOTAL	17

Structural design, land survey and architecture with programming design, construction documents and construction administration for medical, educational, institutional, commercial, recreational and governmental agency client groups.

Anoka Regional Treatment Center, Anoka, MN; Minnesota Veterans' Home, Fergus Falls, MN; Plain Art Museum, Fargo, ND; Ellendale Public School, Ellendale, ND

● **FOSTER, JACOBS & JOHNSON, INC.**

345 Canal Park Drive, Suite 200
Duluth, MN 55802
Tel: 218/722-3060
Fax: 218/722-1931
Established 1922

James R. Johnson
Charles F. Jacobs

PE
PE

Firm Personnel by Discipline

Mechanical Engineers	2
Electrical Engineers	3
Technical	3
Administrative	1.5
TOTAL	9.5

Mechanical and electrical engineering, including design of heating, ventilating, air conditioning, fire protection, plumbing, lighting, power distribution, data, voice, fire and security communications for all building types. Energy audits, studies, building management systems, site and airport lighting.

Aircraft Rescue Fire Fighting Training Facility, Duluth, MN; Village Apartment Complex, University of Minnesota Duluth, Duluth, MN; Douglas County Courthouse Remodel, Superior, WI; Washington Junior High Renovation, Duluth, MN; Mesabi/Vermilion Campus Remodeling, Virginia, MN

● **GAUSMAN & MOORE ASSOCIATES, INC.**

1700 W. Highway 36 - 700
Rosedale Towers
Roseville, MN 55113
Tel: 612/639-9606
Fax: 612/639-9618
Established 1935
Other Offices: Duluth and Brainerd, MN

James W. Giefer
James A. Keller
D. Lane Hersey
Robert B. Full

PE
PE
PE
PE

Firm Personnel by Discipline

Mechanical Engineers	5
Electrical Engineers	5
Technical	25
Administrative	12
TOTAL	47

A National practice in traditional Mechanical and Electrical Engineering. Services augmented by specialties including Life Safety Renovations, Energy Sources/Conservation, and Forensic Investigative work.

Media Play, Suncoast, Sam Goody and ShopKo Stores, Nationwide; Holiday Companies, Upper Midwest; Hennepin County Medical Center Emergency Room, Minneapolis, MN; USWEST, Plymouth, MN; Technical Colleges in Brainerd, Duluth, Hutchinson/Willmar, Riverland, MN; Public Schools in Minneapolis, St. Paul, Brainerd, and Duluth, MN

● **HAKANSON ANDERSON ASSOCIATES, INC.**

222 Monroe Street
Anoka, MN 55303
Tel: 612/427-5860
Fax: 612/427-3401
Established 1975
Other Offices: Monticello, MN 55362

Lawrence G. Koshak
Peter R. Raatikka
Merland Otto

PE
PE
LA

Firm Personnel by Discipline

Civil Engineers	6
Other Professional	3
Technical	9
Administrative	3
TOTAL	21

Hakanson Anderson Assoc. Inc. offers planning, civil and municipal engineering, survey and landscape architecture services to the public and private sectors. Specialized areas include environmental assessments, wetlands, site master plans, hydrologic studies, streets and roads, park and recreation facilities, wastewater and water supply and distribution, surveying and construction staking.

Anoka Enterprise Park, Anoka, MN; County 81 Frontage Roads, Osseo, MN; Anoka Electric Cooperative Operations Center, Ramsey, MN; Mille Lacs Wastewater Treatment Facility Study, Mille Lacs and Crow Wing Counties, MN; Grand Marais, Cook County Airport, Grand Marais, MN

● **HALLBERG ASSOCIATES, INC.**

2207 Third Street
White Bear Lake, MN 55110
Tel: 612/429-5655
Fax: 612/429-6215
Established 1984

Joseph W. Hallberg

PE

Firm Personnel by Discipline

Mechanical Engineers	2
Electrical Engineers	2
Technical	7
Administrative	2
TOTAL	13

Mechanical, Electrical and Energy Management Engineering Services for educational facilities throughout Minnesota.

Discovery Middle School, Alexandria, MN; Buffalo Senior High School, Buffalo, MN; Burnside Elementary School, Red Wing, MN; Big Lake High School, Big Lake, MN; Little Mountain Elementary School, Monticello, MN

● **HAMMEL GREEN AND ABRAHAMSON, INC.**

1201 Harmon Place
Minneapolis, MN 55403
Tel: 612/337-4100
Fax: 612/332-9013
Established 1953
Other Offices: Milwaukee, WI; Rochester, MN

Harry R. Wilcox
James M. Moravek
David J. Galey
Steve Bieniek (Rochester)

PE
PE
PE
PE

Firm Personnel by Discipline

Civil Engineers	7
Structural Engineers	19
Mechanical Engineers	25
Electrical Engineers	17
Architects	90
Other Professional	28
Technical	25
Administrative	42
TOTAL	253

HGA Engineering, in addition to serving clients through the full-service A/E approach, has a broad independent client base. HGA engineers pride themselves on using their creativity and innovation to develop workable, cost-effective solutions to engineering challenges. Each discipline is highly capable and intent upon providing the best possible service to all clients.

3M, Corporate Administration Building and Cafeteria Building, St. Paul, MN; Northern States Power Company, Eau Claire and LaCrosse, WI; IBM Campus, Rochester, MN; Metropolitan Waste Control Commission, Minneapolis, MN; Iowa-Illinois Gas & Electric, Davenport, IA

● **KRECH, O'BRIEN, MUELLER & WASS, INC.**

6115 Cahill Avenue
Inver Grove Heights, MN 55076
Tel: 612/451-4605
Fax: 612/451-0917
Established 1985

Jim Krech
Dan O'Brien
Brady Mueller
Brian Wass

PE
AIA
AIA
AIA

Firm Personnel by Discipline

Structural Engineers	2
Architects	5
Technical	5
Administrative	1
TOTAL	13

Structural engineering for commercial, industrial, medical, retail, agri-facilities and residential projects. We offer Auto-CAD and have a current library of structural design software. Services are provided for architects, owners, contractors, and various agencies.

Nahan Printing, St. Cloud, MN; Tapemark Corporation, West St. Paul, MN; Inver Grove Heights Veterans' Memorial Community Center, Inver Grove Heights, MN; Bester Bros. Moving, South St. Paul, MN; Cenex/Land-O-Lakes Containment Facilities, Nationwide

● **LARSON ENGINEERING OF MINNESOTA**

3524 Labore Road
White Bear Lake, MN 55110
Tel: 612/481-9120
Fax: 612/481-9201
Established 1978
Other Offices: Naperville, IL and Appleton, WI

Lee A. Granquist PE
Henry W. Voth PE
Kesh P. Ramdular PE

Firm Personnel by Discipline

Civil Engineers	1
Structural Engineers	11
Technical	4
Administrative	3
TOTAL	19

Larson Engineering provides structural and civil design for commercial, governmental and institutional buildings. We provide structural design of curtainwall systems for architects and erectors. Structural design of bridges along with civil engineering for building sites and roads. We provide complete engineering and design for industrial-related structures of all types including manufacturing, processing and storage facilities. Expertise in grain and material handling systems including unloading, storage, weighing and loading systems.

Jackpot Junction Casino, Morton, MN; Hutch Technology Center, Hutchinson, MN and Eau Claire, WI; St. Louis County Jail, Duluth, MN; Plymouth City Hall and Administration Building, Plymouth, MN; St. Benedict's Student Center, St. Joseph, MN

● **L S ENGINEERS, INC.**

200 South Main Street
LeSueur, MN 56058
Tel: 612/665-6255
Fax: 612/665-6818
Established 1989

Robert L. Sprengeler PE
William P. Lehnertz PE

Firm Personnel by Discipline

Structural Engineers	5
Technical	4
Administrative	1
TOTAL	10

Structural engineering services for all building types in the areas of industrial, commercial, religious, institutional, residential, manufacturing, as well as specialized structures for water and wastewater plants. Full range of services including feasibility studies, investigations, construction documents, cost estimates, and field observations.

Bethany Chapel, Mankato, MN;
Lyndale Shops, Minneapolis, MN;
Office Depot Retail Store, St. Louis Park, MN; Montevideo Middle School, Montevideo, MN; Dakota Magic Casino and Hotel Complex, Hankinson, ND

● **LUNDQUIST, KILLEEN, POTVIN & BENDER, INC. (LKP ENGINEERS)**

(Formerly LJPB Engineers)
1935 W. County Road B2, Suite 300
St. Paul, MN 55113-2722
Tel: 612/633-1223
Fax: 612/633-1355
Established 1969

Leonard A. Lundquist PE
John M. Killeen PE
Peter A. Potvin PE
Gayland J. Bender PE

Firm Personnel by Discipline

Mechanical Engineers	7
Electrical Engineers	6
Technical	24
Administrative	7
TOTAL	44

Professional Mechanical, Electrical and Industrial Engineering services for all types of facilities. Design expertise in HVAC, plumbing, fire protection, refrigeration, building automation, site utilities, lighting design, power, communication, security, data processing environments, fire and life safety, life cycle costing, value engineering, energy conservation and management, feasibility studies and building commissioning. Industrial engineering services include facility planning, material handling, manufacture/process engineering and warehouse distribution.

US West Market Street Facilities, St. Paul, MN; Mayo Foundation - St. Joseph's + East Cardiovascular Stress Center, Rochester, MN; United Hospital Patient Focus Care Centers, St. Paul, MN; United Health-Care Corporation, Edina, Minnetonka and Golden Valley, MN; Gustavus Adolphus College, St. Peter, MN; Grand Casino Hinckley and Grand Casino Mille Lacs, Hinckley and Mille Lacs, MN

● **MATTSON/MACDONALD, INC.**

1516 West Lake Street
Minneapolis, MN 55408
Tel: 612/827-7825
Fax: 612/827-0805
Established 1983

Wesley C. Mattson PE
David H. Macdonald PE

Firm Personnel by Discipline

Structural Engineers	4
Other Professional	2
Administrative	1
TOTAL	7

Mattson/Macdonald provides structural engineering services to architectural firms serving the five-state Midwest area. Mattson/Macdonald has considerable experience with a wide range of building types: housing, retail, office, manufacturing, hospitals, churches, educational and institutional facilities.

Mille Lacs Indian Museum, Garrison, MN; Kanabec County Hospital Expansion, Mora, MN; Redwood Falls Public Library, Redwood Falls, MN; Theater De La Jeune Leune, Minneapolis, MN; Corpus Christi Catholic Church, Roseville, MN

● **MAXIM TECHNOLOGIES INC.**

662 Cromwell Avenue
St. Paul, MN 55114
Tel: 612/645-3601
Fax: 612/659-7348
Established 1938
Other Offices: Rochester, MN

Marc Shannon PE
Tracy Toepper PE
John Stieben PE
Sam Ng PE
Steve Olson PE

TOTAL STAFF 150

Maxim Technologies, Inc./Twin City Testing provides QA/QC testing for all types of construction projects including geotechnical engineering, construction materials testings, drilling and failure analysis. Additional services include environmental consulting, materials testing and analytical chemistry. Maxim offices total 53 nationwide with Minnesota offices located in St. Paul and Rochester.

Maple Grove High School, Maple Grove, MN; Midway Market Place, St. Paul, MN; Sears, Mankato, MN; Faribault Elementary School, Faribault, MN; Hopkins Schools, Hopkins, MN

● **McCONKEY & ASSOCIATES, INC.**

3144 Hennepin Avenue S.
Minneapolis, MN 55408
Tel: 612/822-6950
Fax: 612/822-8385
Established 1978

H. James McConkey PE
Richard W. Johnson PE

Firm Personnel by Discipline

Structural Engineers	3
Technical	2
Administrative	1
TOTAL	6

Structural engineering consulting services for commercial, industrial, institutional, public and residential building projects; Special design for bins, stacks, equipment supports, material handling. Rehabilitation and remodeling of existing structure. Structural investigations and reports. Licensed in 23 states.

Minnesota Correctional Facility, Faribault, MN; Cinema 6 Theater, St. Louis Park, MN; Carisch Commercial Property and Parking Ramp, Wayzata, MN; St. John the Baptist Church, Savage, MN; Sidney's Restaurant, Scottsdale, AZ

● **MEYER, BORGMAN & JOHNSON, INC.**

810 Plymouth Building
Minneapolis, MN 55402
Tel: 612/338-0713
Fax: 612/337-5325
Established 1955

John E. Meyer PE
Roland V. Johnson PE
Richard E. Wiehle PE
Daniel E. Murphy PE
Michael J. Ramerth PE

Firm Personnel by Discipline
Structural Engineers 13
Technical 6
Administrative 2
TOTAL 21

Single discipline consisting of Structural engineering services applied to the design of commercial, educational, industrial, medical, recreational, religious and residential facilities.

Fredrick R. Weisman Art Museum, University of Minnesota, Minneapolis, MN; St. Paul High School, St. Paul, MN; Dayton's, Maplewood, MN; H. B. Fuller Willow Lake Campus, Vadnais Heights, MN; West Health Campus, Plymouth, MN

● **MICHAUD COOLEY ERICKSON**

333 South Seventh St., Ste. 1200
Minneapolis, MN 55402
Tel: 612/339-4941
Fax: 612/339-8354
Established 1946

Dean A. Rafferty PE
Monty L. Talbert, Jr. PE
Douglas C. Cooley PE

Firm Personnel by Discipline
Mechanical Engineers 40
Electrical Engineers 25
Other Engineer 1
Other Professional 1
Administrative 15
TOTAL 82

MCE designs mechanical, electrical, lighting, and special systems for corporate, medical, data processing, high-tech R&D, retail, industrial, educational, public, and commercial buildings. Examples of special systems include: security and surveillance, life/safety, fire protection, audiovisual and sound reinforcement, paging and intercom, cable or master television antenna signal distribution.

(New) Children's Museum, St. Paul, MN; (New) Federal Reserve Bank, Minneapolis, MN; H. B. Fuller Company, (New) Research & Development Lab Building, Vadnais Heights, MN; North Memorial Medical Center, Expansion and Renovation, Robbinsdale, MN; St. Paul City Hall/Ramsey County Courthouse, Expansion and Renovation, St. Paul, MN

● **OSM AND ASSOCIATES, INC.**

300 Park Place East
5775 Wayzata Blvd.
Minneapolis, MN 55416-1228
Tel: 612/595-5775
Fax: 612/595-5773
Established 1992
Other Offices: Eau Claire, WI

Jack L. Hunter PE
Marlin D. "Butch" Larsen PE
Jerry A. Turner AIA
Edward J. DeLaForest PE
F. Dennis Hall PE

Firm Personnel by Discipline
Civil Engineers 13
Structural Engineers 3
Mechanical Engineers 12
Electrical Engineers 8
Other Engineers 9
Architects 6
Other Professional 8
Technical 72
Administrative 21
TOTAL 151

Engineers, Architects, Planners and Surveyors providing services to the medical, educational, industrial, commercial, and governmental sectors. Specific Services include: mechanical, electrical and structural engineering, architecture, municipal, water resources, transportation and environmental engineering, land surveying and landscape architecture. Full Service, Client-oriented Firm, experienced with multi-disciplinary projects. Complete project capabilities inhouse.

Facilities Engineering, 3M Corporation, St. Paul, MN; HealthEast Corporate Master Plan, St. Paul, MN; EAW for DAMARK Facility, Brooklyn Park, MN; BFI Hoving & Sons Transfer Station Remodeling and Additions, Chicago, IL; Water Treatment Plant Expansion, Richfield, MN

● **SCHOELL & MADSON, INC.**

10580 Wazata Blvd., Ste. #1
Minnetonka, MN 55305
Tel: 612/546-7601
Fax: 612/546-9065
Established 1954
Other Offices: SMI Testing, Eden Prairie, MN

James Orr PE
Kenneth Adolf PE
Theodore Kemna RLS
Doug Stahl PE
John Karwacki PE

Firm Personnel by Discipline
Civil Engineers 7
Other Professional 5
Technical 25
Administrative 3
TOTAL 40

Complete wetlands identification, classification, and delineation; EAW's, EIS and natural resource services; environmental site assessments, regulatory compliance and permitting; civil engineering system studies, design and construction/contract administration; land surveying, topographic, construction, and as-built surveys; quality control soil testing.
Opus II Business Park, Minnetonka, MN; Laurel Village, Minneapolis, MN; Restoration of Historic Main Street, Minneapolis, MN; Hills of Owasso, Roseville, MN; Cedar Pass, Minnetonka, MN

● **SHORT ELLIOTT HENDRICKSON INC. (SEH)**

3535 Vadnais Center Drive
St. Paul, MN 55110
Tel: 612/490-2000
Fax: 612/490-2150
Established 1927
Other Locations: Minneapolis and St. Cloud, MN; Madison and Chippewa Falls, WI and Lake County, IN

Donald E. Lund PE
Gary R. Gray PE
Richard A. Olsen AIA
Robert F. Pauly AIA
Bradley E. Forbrook AIA

Firm Personnel by Discipline
Civil Engineers 91
Structural Engineers 10
Other Engineers 35
Architects 20
Other Professional 22
Technical 74
Administrative 62
TOTAL 314

SEH is a multidisciplinary A/E consulting firm offering services in Architecture, Civil Engineering, Environmental and Transportation. Specialty services include VRI Virtual Reality Computer Imaging and Public Involvement Programs.

Becker Community Center, Becker, MN; Charles A. Lindbergh Elementary School, Little Falls, MN; St. Cloud Regional Airport Terminal Building, St. Cloud, MN; I-35E/University Sewer Separation Project, St. Paul, MN; Stillwater Flood Control Project, Stillwater, MN

● **STS CONSULTANTS, LTD.**

3650 Annapolis Lane, Ste. 120
Minneapolis, MN 55447
Tel: 612/559-1900
Fax: 612/559-4507
Established 1948

Other Offices: Deerfield, IL, Greenbay and Milwaukee, WI and Lansing, MI

James H. Overtoom PE
Robert L. DeGroot CPG, PE
Douglas A. Spaulding PE

Firm Personnel by Discipline
Civil Engineers 4
Mechanical Engineers 1
Other Engineers 7
Other Professional 10
Technical 12
Administrative 6
TOTAL 40

STS specializes in geotechnical engineering, environmental engineering, water resources and construction engineering services. Our services include: environmental site assessments, remediation, stormwater management, air quality, and wetland construction, delineation and mitigation, landfill engineering, foundation design, erosion control, embankment stabilization, dam engineering, and materials testing.

Remediation of the Federal Courts Building Site, Minneapolis, MN; Remedial Investigation at TCAAP, Minneapolis, MN; Foundation design and Material testing for Pillsbury Tower, IBM Tower and City Center, Downtown Minneapolis, MN

● **TOLTZ, KING, DUVAL, ANDERSON AND ASSOCIATES INC.**

1500 Piper Jaffray
444 Cedar Street
St. Paul, MN 55101-2140
Tel: 612/292-4400
Fax: 612/292-0083
Established 1910

Duane Prew PE
James Voyer PE
Darrel Berkowitz PE
Robert Boyer PE
Westly Hendrickson AIA

Firm Personnel by Discipline
Civil Engineers 36
Structural Engineers 10
Mechanical Engineers 7
Electrical Engineers 2
Other Engineers 2
Architects 11
Other Professional 3
Technical 55
Administrative 24
TOTAL 147

A multidisciplinary A/E firm offering services in civil, electrical, environmental, mechanical, structural and transportation engineering. Electrical, mechanical and structural building system design in support of our architecture department. Design of municipal utilities, highways, bridges, airports and railroads.

TH 212 Reconstruction, Eden Prairie, MN; Macalester College Field Expansion/Campus Way Construction, St. Paul, MN; Minneapolis/St. Paul International Airport Elevated Roadway Reconstruction, Minneapolis, MN; Wabasha Street Bridge Reconstruction, St. Paul, MN; Southeast YMCA, Woodbury, MN

● **VAN SICKLE, ALLEN & ASSOCIATES, INC.**

4969 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/541-9804
Fax: 612/542-1405
Established 1978

Richard A. Van Sickle PE
Charles K. Allen PE
Reg C. Silverthorne PE
Gary V. Nagel PE
Anthony J. Pini PE

Firm Personnel by Discipline
Civil Engineers 4
Structural Engineers 7
Technical 11
Administrative 3
TOTAL 25

A unique firm offering civil and structural consulting for architects' commercial, industrial and institutional facility designs. Also, VAA is the country's largest engineering firm in private practice offering prime engineering planning and design services to the agribusiness community.

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Norman Glewwe AIA
Kevin Sullivan AIA
Craig Anding PE
Paul Juntilla PE

Firm Personnel by Discipline
Mechanical Engineers 10
Electrical Engineers 7
Architects 36
Technical 5
Administrative 12
TOTAL 70

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that area [of research] and was one of the pioneers in both experimental buildings [e.g. Princeton Professional Park, and some designs for Butler Manufacturing], as well as some pioneering work on how to analyze those kinds of buildings. The purpose there was to represent the physical phenomena in ways that it could be an active part of your design imagination, and not just numbers.

AM: Who were your heroes when growing up?

HF: Well, I certainly had the usual sports heroes, and some literary heroes. It wasn't really until I got into architecture that I gained professional mentors. I've been absolutely fascinated by the German and English pioneers of architectural history and theory, such as Rudolf Wittkower and Anthony Blunt, and another wonderful mentor was Victor Ollguyay, author of *Design and Climate*.

AM: What would you say were your major accomplishments over the 10 years you've been head and then dean of the school of architecture at Minnesota?

HF: When I first came to Minnesota the faculty was almost entirely an adjunct faculty with a very small core of full-time faculty. Most of the lecture courses were taught by the adjunct faculty. The ratio is now close to 50-50 adjunct to full-time faculty. This has strengthened the full-time faculty impact on the lecture courses (and also in the studios, of course), but this has allowed them to have a research agenda for the core courses. At the same time I had a significant turnover in adjunct faculty so that we tried to develop and move a younger, emerging generation of practitioners into teaching positions. Thus the personality of the college has changed dramatically so that now there is a significant amount of research activity taking place within the college.

We've also increased the amount of funding for research. We've gone from approximately \$1,500 per faculty member to \$30,000 to \$50,000. What that

does is completely change the atmosphere of the school. Now 70 to 85 percent of the students are teaching assistants or research assistants and the faculty have significant funds to enhance their travel and attendance at conferences. I think I've tried to support the synergy between the full-time faculty and the adjunct faculty who bring their experience from professional practice into the classroom. It makes a good fit between the two.

We've also gone from \$200,000 in total endowment funds (from the mid-1980s) to more than \$7 million, and this has allowed us to create four endowed faculty chair positions. [These include two visiting critics or practitioners: one in architecture and one in landscape architecture. The other two are the director and assistant director of the Design Center for the American Urban Landscape.] And this funding has allowed us to increase the scholarships available to students.

This fund also enriches the school experience for students and has allowed us to attract leading thinkers and designers from around the country to come and stay for extended periods. This has been a terrific resource. Not only do these visiting faculty help with the teaching load, they stimulate the design and research interests of the permanent faculty.

I am especially proud of the visiting professorship endowment funds, and the creation of the Design Center for the American Urban Landscape headed by William Morrish and Catherine Brown.

In general the research activity at the college has tried to address some of the most interesting and pressing environmental challenges facing our society. The current faculty is much more engaged in work that relates to that need. These challenges include environmental issues, inner-ring suburbs, affordable housing, transportation issues, landscape restoration, using the environment as a means of revitalizing neighborhoods, and increase sensitivity to construction and materials as a form giver. All of these things are alive and well at CALA.

I've really tried to make CALA a school engaged in the community, not only with the research agenda and the design-studio problems presented to students, but also with the professional community. After all, the profession is

one of our most important customers. I've tried to listen to their needs and to engage that community with the school. In that regard, I'm pleased that funds from alumni and the profession that go toward our annual giving campaign have grown from \$3,000 to around \$10,000.

While we've changed the faculty composition and increased interest in research, we've changed the curriculum. It has gone from a predominantly five-year bachelor of architecture professional degree to what we think is an innovative "one-plus-three" master of architecture degree, which is now the professional degree. I couldn't have done that without the collegiate structure. By having a department head, for both architecture and landscape architecture, the primary effort in running these departments was taken on by that person, freeing me to accomplish more.

With respect to research, there are still some relationships to be developed with the building-construction community. I'd like to see this area of research clustered with the urban-design and building-science stuff that we've started. If you want the profession [architecture] to maintain its value to society, it needs to recapture the understanding that architecture is also the *art of building*.

In general I've tried to engage the school with the issues of society, engage it with the profession and tried to increase its ability to be a more responsive and better partner in those areas. And, bottom line, my main focus has been to create a better environment for the students.

AM: What are your plans for UC Berkeley?

HF: I look forward to engaging that faculty and the local community in some of the same issues that I've been talking to this community about. I think I can bring a lot to Berkeley because it is my sense that the faculty and the college have been somewhat disengaged. I want to make sure that they really are addressing issues that are relevant to the society in the Bay Area, and that they really are and become players in the discussion and debate that must occur around important social issues. **AM**

Dennis Walsh, a founding partner of the 11-year-old firm Walsh Bishop Associates concurs. "Not everyone will be a big designer," he says. "We really only need 10 percent of the architects to be designers. We also need managers who can communicate with employees and clients. We need technically competent architects, and we need architects who actually understand construction. Students should be introduced to these choices early in their education so that they can take the courses that apply to their own talents."

At Xerxes Architects, a typical day finds the partners working in three general categories. Haarstad handles marketing and design; Lechleiter manages projects and deals with contractors, consultants and existing clients; and Carroll handles a number of projects from start to finish. All three assume responsibility for such mundane housekeeping tasks as cleaning the office, making coffee and answering the phone.

"People don't understand what it takes to run an architectural firm," Lechleiter stresses. "It's 90 percent work and 10 percent fun. We have a lot of respect for the work that goes into managing an office or preparing a proposal—we know what's involved now, and how much time it takes."

From the perspective of 25 years of experience, Walsh whole-heartedly agrees that mastering basic business practices is mandatory to success. "If we don't understand business practices ourselves, how can we understand our clients?" Walsh says he believes that architects often "don't know how to manage, so leadership roles have been taken away from us. We're in the people business, but we fail to communicate either as speakers or as writers."

John Cuningham of Cuningham Hamilton Quiter, P.A. offers a similar viewpoint, noting that architects' problems often come from responsibilities they've dodged.

"Architects are shirking their responsibility of telling clients the real cost of a building," he says. "We don't explain the financial implications of

our services, and we don't understand what the financial picture is for our clients. We need to know the economic realities of our clients' markets; and we need to understand why the rules are the way they are."

Walsh agrees, "Architects don't comprehend the bigger perspective of a client's situation. We need to 'talk business' and understand finances."

On marketing in architecture, all three firms focus on a client-centered approach. "We need to ask what clients are looking for from us," says Walsh. "Marketing is as creative as architecture—you're creating value for the services architects provide. Architects are good conceptual thinkers; we're good at problem-solving. What we need to do is market those skills by demonstrating that we can create unique solutions to improve a client's business. That means we should be involved in strategic planning, real-estate planning and technological advances—demonstrating that we're business-oriented, not just design-oriented."

So how can architecture respond to these issues? It's clear that both Walsh and Cuningham have perspectives that are based on years of experience. The partners from Xerxes Architects offer the counterpoint of a new generation. All agree that the changes begin with architects working together because, as Cuningham says, "there is more work for architects to do than we can handle."

Haarstad finds that there is more respect for architects outside of the building community than is perceived within. "There's the romance of making something, and there's respect for that," he says. He agrees with partner Lechleiter, however, that within the building community "contractors are often taken more seriously than architects."

Carroll notes that the fundamental problem is that "People think it's either good service or good design. That's a misunderstanding. Good service is a natural by-product of good design." Walsh agrees. "Good design is part of our basic service—it's not an additional item."

Another potential component of positive change is revamping architectural education. "It's adversarial,"

Walsh says. "We're taught criticism in school, and that's what we learn—criticize, criticize, criticize." Cuningham suggests that educators "teach architecture in an integrated way. Teach how it relates to ecology, finance, clients, structure. The focus can be broadened, not narrowed."

Finally, architects must take an active role in public debates about planning and design issues. "We need to be civic leaders," according to Cuningham. "We can be constructive about our suggestions, but we must stand up and let the city know when it's making a bad design decision. We must take a position on public issues. And maybe we've got to be throwing ourselves in front of a few more bulldozers." **AM**

sod

Continued from page 23

ing, grass side down, for 2-foot-thick walls. The McCones also laid every third or fourth layer crosswise to bind stacks together. They filled cracks with loose dirt. They set wood door and window frames into the walls as they laid the sod. McCone estimates he used more than 300,000 pounds of prairie sod to build the 36-foot by 21-foot house; 24,000 pounds are on the roof alone. The simple gable, wood-plank roof was first covered with tar paper and then with a 3-inch layer of sod, grass side up. (Poor settlers often just used pole rafters covered with brush and then sod—hence the leaks.)

Lumber salvaged from a 90-year-old flour mill in downtown Minneapolis's Butler Square was used to build the floor, roof, window frames and door. McCone got the 112-year-old chimney bricks from the Aufderheide kiln in New Ulm. Interior walls were whitewashed. The soddy is furnished with two double beds, fainting couch, tables, wardrobes and rocking chairs. In true pioneer style, there are wood-burning stoves for cooking and heat, pitcher and basin for washing, and oil lamps for lighting.

While the bed and breakfast replicates upscale pioneer housing, the more primitive 18-foot by 18-foot

dugout (constructed in 1988) offers a look at how those with less means settled on the prairie. The roof is made of peeled cottonwood poles, brush, slough grass and sod. The dugout has 2-foot-thick walls and a sleeping loft. But the dirt floor, crude furnishings and small interior suggest the difficulty of long winters spent in such cramped quarters, and the toll such times took on settlers like the pioneer wife depicted in O.E. Rolvaag's seminal novel, *Giants in the Earth*.

"The sod house was an austere reflection of an austere life," writes Jean Caspers in *Compendium History of the Dugout and Sod House in Minnesota*. "Times were hard and we can only with difficulty imagine that sod-house life could have been at all pleasant. But just as the pioneer devised sod houses to bear the assaults of nature, he also strengthened his spirit to meet the con-

stant assaults on his constitution and resolution."

Today in areas of Great Britain, France and Scandinavia "people still live in pits dug in the ground roofed over by poles and bark, sometimes extended above ground by walls of sod," Kennedy writes. The ecology movement of the 1960s and '70s sparked, with a nod at sod houses, an earth-sheltered housing boom that echoed around the world. More recently, the June 1993 issue of *Architectural Digest* featured a Montana ranch house sporting a sod roof "inspired by pioneer sod-roofed houses," said the architect. But the McCone sod houses, for as long as they stand, are solitary reminders of a pioneer architecture and lifestyle that vanished, almost as quickly as it appeared, from the American landscape. **AM**

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NORTHEAST MINNESOTA HISTORICAL CENTER

The Lyceum Theater (1891-ca. 1962), Superior Street at Fifth Avenue W., Duluth.

In 1890, When Andreas M. Miller, a rich Duluth lumber baron and railroad magnate, decided his city needed a prestigious theater, he quickly set the project in motion. To design this building, the Lyceum Theater, he hired Duluth's busiest architectural team, Oliver C. Traphagen and Francis W. Fitzpatrick, who would also design such city landmarks the Fitger's Brewery, First Presbyterian Church, the Duluth Board of Trade and the Torrey Building.

The Lyceum, situated on Superior Street opposite the Spalding Hotel, became a massive Romanesque structure that was dubbed the "handsomest and costliest building in the Northwest." Most of the 6-story exterior—rising to a

seventh at the corner towers—was constructed from brick with sandstone corner quoins. On the lower two levels, however, Traphagen and Fitzpatrick alternated the sandstone and brick, and the triple-arched entrance was decorated with detailed carvings and ornamentation. A pair of stone lions guarded the front steps and several businesses occupied street-level storefronts.

Inside, the auditorium contained the largest stage in the Upper Midwest. Frescoes and bronze fixtures created "such a sensation in the beholder, as he gazes on the magnificent scene of gold and light, that he instinctively thinks of the story of Solomon's temple and the story of Aladdin," observed the *Duluth*

Tribune upon the opening of the theater on August 3, 1891.

The Lyceum's alleged resistance to fire was highly publicized. Years later, when Fitzpatrick left Duluth to advance his architectural career, he became known as "the father of the fire-prevention movement."

Like many turn-of-the-century theaters, the Lyceum eventually became a movie palace. It also briefly housed Duluth's first radio station, WJAP, in 1922.

Duluth's Gateway Urban Renewal Project of the early 1960s spelled the doom of the Lyceum, along with many other buildings in the area. After the theater was razed, the lions went to the Duluth Zoo.

Jack El-Hai