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ON THE COVER: This custom-designed garden pergola features 4 pairs of Chadsworth's Polystone I Doric columns with attic (double-ring) bases. The pergola was designed by William Poole for a showhouse in Greensboro, N.C. For more information on CHADSWORTH'S 1.800.COLUMNS, see the Columns & Capitals SourceList, pp. 21-26, or Write in No. 180 for Wood & No. 1580 for Polystone. (Photo: Hart/Collier)

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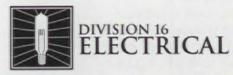


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TAMING TECHNOLOGY

From the latest in laboratories to the oldest of landmarks, Lord, Aeck & Sargent Architecture is putting contemporary technologies to the test and finding more than hype.

by Kathleen Randall

echnology is like a lot of things in life: If you don't control it, it will certainly control you. Lord, Aeck & Sargent, a multidisciplinary architectural firm based in Atlanta, distinguishes itself from other firms by its early and aggressive adoption of new technologies, whether they be for drawing, constructing or communicating. One of the things the firm seems to do best is shape these technologies to the specific needs of the practice, its clients and the buildings it creates and restores.



A crew dismantles the base of the Louisiana Monument in Vicksburg, Miss. Both the base and the column that sit upon it are Dorian Gray Granite, and both were severely damaged by lightning in May 1999. LAS provided technical supervision for the dismantling of the monument. Restoration is currently awaiting funding.

number of projects requiring strategic communications planning, technology integration and multimedia components - projects that today overlap all of the firm's practice areas. Aeck admits the areas of practice may seem a strange mix, but there is a common denominator — complexity and challenge. "Not to denigrate anyone who does, say, motels - but that is not what makes our day."

Family Firm

Tony Aeck is the partner who oversees the Historic Preservation practice group. As the only child of two parents in the architecture and interiors profession, he naturally gravitated down the same path. His mother, Molly Aeck, studied architecture in the 1930s and although she was never a registered architect, she practiced what would be called interior architecture today. She met and married a young architect, Richard Aeck, in 1938, and by 1942 they had joined profes-

sional forces and become Aeck Associates. Molly Aeck worked with Frank Lloyd Wright at Taliesen and counted Roosevelt's Little White House in Warm Springs, Ga., as one of her favorite projects. She lived to age 98, a few months shy of seeing her son's firm secure a commission to design a new visitors center and museum for the Little White House this

After graduating from Rice University, Aeck joined the family firm and has seen it through the changes that brought it to its present size and stature. Today about one third of the firm's projects fall into the historic-preservation category, but about half involve existing buildings. Tony Aeck and Larry Lord are typically project principals and Terry Sargent the principal overseeing design. The firm distinguishes itself not only by its technical savvy, but by the recent awards it has landed - R&D Magazine's Laboratory of the Year for 1998; two National AIA Honor Awards; local preservation citations - and by its depth of expertise within chosen specialties.

The adjective "new" goes hand in hand with technology, but Lord, Aeck & Sargent is not a new firm, or a firm new to the practice of historic preservation and tradition-based architecture. Founded by current partner Tony Aeck's father and mother, the firm has been in continuous practice since 1942. While few and far between at the time, the firm's first projects restoring existing buildings occurred in the 1960s, well before preservation was a common specialty practice. In 1989 Aeck Associates merged with architects Lord & Sargent, also of Atlanta, to form the current corporation. The 70-person firm headed by Larry Lord, FAIA, Tony Aeck, AIA, and Terry Sargent, AIA, has four main practice areas: Science, Education, Historic Preservation and Interactive. The latter includes the growing

(left to right) Susan Turner, Scott Thompson, and Tony Aeck — the core of Lord Aeck & Sargent's Historic Preservation group.

Targeting Specialties

The four practice groups were formalized about a year and a half ago, notes Aeck, for the purpose of developing self-contained expertise in areas that relate to specific kinds of projects. "We are developing what is called in baseball parlance, bench depth.' Our goal is to have a vertical slice out of all the different expertises needed for specialized areas of work, and for non-specialized areas draw from our support staff." Quite a bit of expertise is already assembled in the Preservation group, which includes practitioners who came to the field with

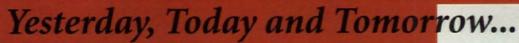
continued on page 8



Swan House was designed in 1928 by Philip Trammell Shutze, one of Atlanta's most renowned and respected architects. The 13,000-sq.ft. masonry and stucco house is now part of the Atlanta History Center. LAS has completed several projects at the property and is currently working on restoration of the fountain and garden wall, exterior woodwork, the integration of HVAC and life-safety systems, and the creation of a museum space to house the decorative-arts collection of Shutze. (Photo: Timothy Hursley)



At Valdosta State University in Valdosta, Ga., LAS is working on this new building designed to fit comfortably with its neightbor - a National Register property designed in the Mission Revival Style. (OLord, Aeck & Sargent, Inc. 1998)



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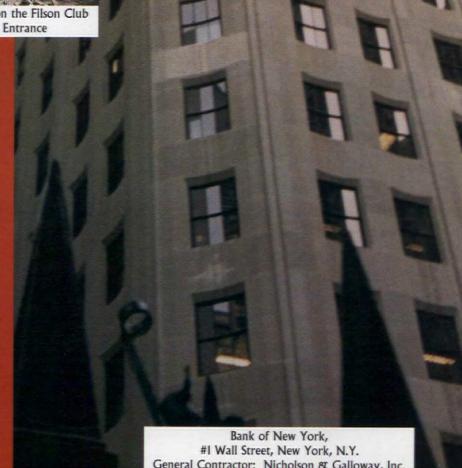
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For the past seven years Lord Aeck & Sargent has been working on phased projects at the Georgia State Capitol, a National Historic Landmark designed in 1889 by Willoughby Edbrooke and Franklin Burnham of Chicago. The \$58-million project covered all the public and ceremonial spaces, which total over 100,000 square feet. The central rotunda is again light and bright after years behind heavy drapery and dulled paint. Exterior gilding of the dome was performed by The Gilders' Studio, Olney, Md. (Photo: Jonathan Hillyer/Atlanta)

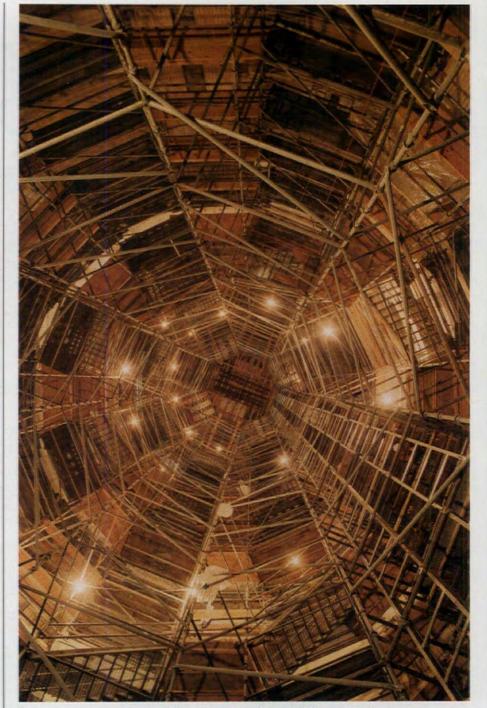
prior backgrounds in stone masonry, millwork, materials science, historic interiors and master planning.

Aeck works closely with Susan Turner, AIA, who heads the 12-person Preservation group. With both an architecture degree and a MArch in Historic Preservation from University of Florida and almost twenty years of practice in the field, she is regarded as the group's "preservation conscience." Turner has lead the preservation team on the Georgia State Capitol project from the 1994 HABS documentation through four restoration phases to the current projects, which include a master plan for office areas and the integration of air conditioning into the circulatory and connecting spaces in which the public has patiently sweated through 110 Georgia summers.

Also key to the preservation group is Scott Thompson. Thompson has a degree in Industrial Design and extensive experience in graphics, signage and interior architectural detailing. He has applied these skills to historic-preservation work for much of his career. At Lord, Aeck & Sargent he is involved primarily with work on historic interiors, particularly research into original materials and modern-day replacements, and the graphic communications used to convey concepts to clients. One of Thompson's specialties is moving basic CADD architectural drawings into illustration software such as Adobe Pagemaker and Macromedia Freehand, so that they can be colored, shaded and detailed to appear more like renderings. "CADD drawings are a little rigid because they are really more of an engineering base," says Thompson. "We put them into graphics programs and create a softer, less chiseled kind of drawing for presentations to clients or various constituent groups. I hate the term 'warm and fuzzy,' but that is kind of what we're doing."

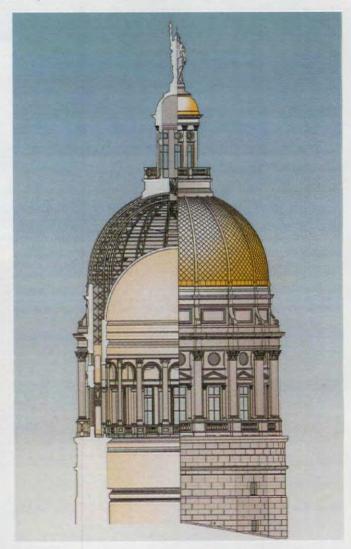
Taming CADD

For a purely architectural firm, Lord, Aeck & Sargent (LAS) was an early convert to CADD. The firm ordered its first system in 1979 after using service bureaus for a year. When it came time to move to its current offices in 1990, the drafting tables were left behind. Today every job that originates with LAS goes straight to CADD. Existing conditions drawings serve as a flexible base that is modified, finessed and customized for everything from presentations through construc-



The same rotunda under scaffolding. At 168 feet the scaffolding itself is impressive. (Photo: Jonathan Hillyer/Atlanta)

tion drawings. By using CADD for its restoration projects, even construction documents can have a high level of detail without a great deal of added effort. The standard size for LAS's construction documents is 11 x 17 inches.

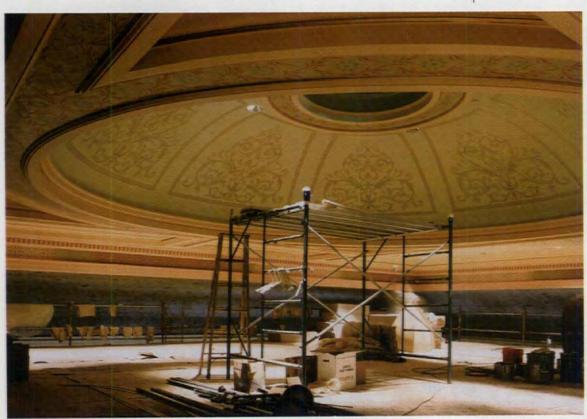


LAS's digital renderings, such as this cutaway illustration of the Capitol's 236-ft.-tall dome, start as basic CADD drawings and end up as presentation graphics and even promotional items. (LAS)

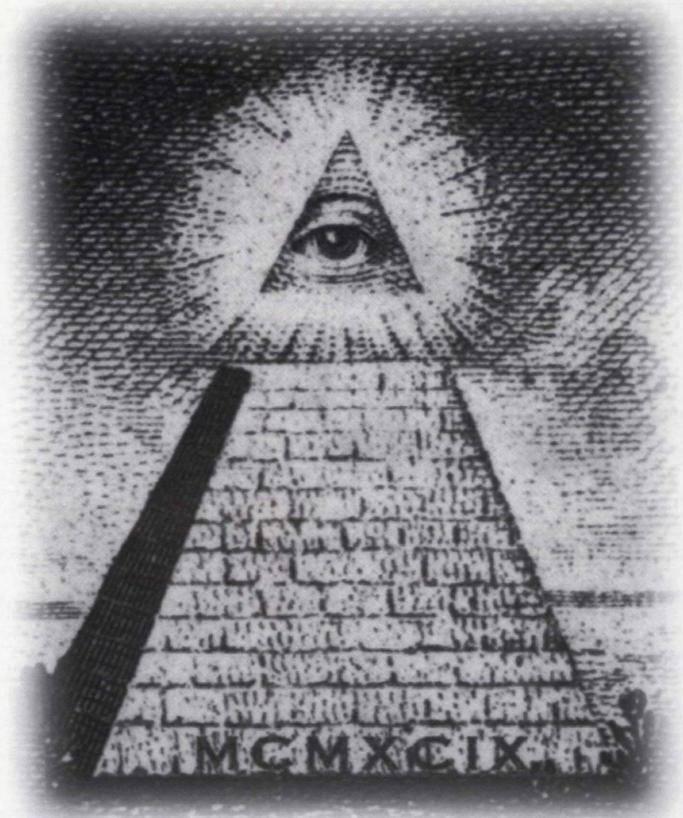
Not only does this make a set easy to cart around the job site, it eliminates slow, space-hogging plotters. LAS often transmits CADD drawings directly to the job site for printing, allowing quick, back-and-forth modifications when needed.

The Georgia State Capitol project is an excellent example of CADD flexibility and the mileage one can get from

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Throughout the Capitol, careful paint analysis was done to determine colors, and in many cases, uncover original stencil patterns hidden behind layers of plaster and paint. All of the stenciled decoration was redrawn and reapplied to newly finished surfaces. Above, the repainting process underway in the House Chambers. Original Victorian plaster cove ceilings, removed from both the House and Senate Chambers during renovations in the 1960s, were replaced in the restoration with perforated metal panels to improve the acoustical qualities of the room. Evergreene Painting Studios and Conrad Schmitt Studios were the primary decorative-painting contractors. (Photo: Jonathan Hillyer/Atlanta)



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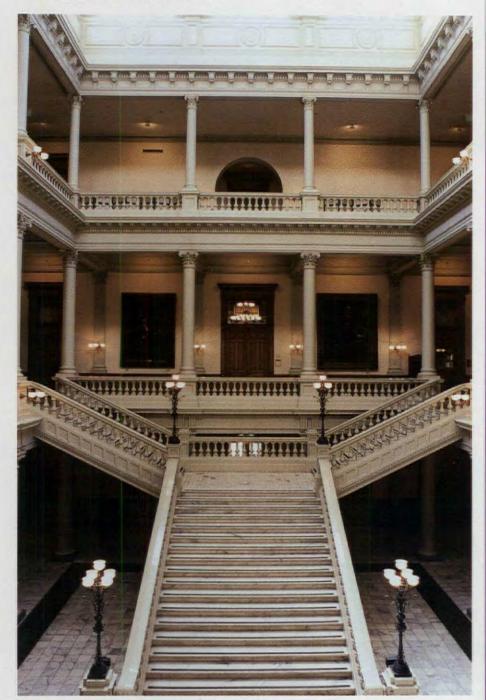
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This drawing of the Capitol's House chambers shows the presentation-quality electronic rendering Scott Thompson achieves by enhancing CADD drawings with illustration and graphics software tools. (LAS)



Post-restoration, the public spaces of the Georgia State Capitol are not only beautiful, they are air conditioned. (Photo: Jonathan Hiller/Atlanta)

a good set of electronic drawings. The Capitol was one of the first HABS documentation projects done completely with CADD. Working closely with the National Park Service, LAS created 333 MB of existing conditions drawings. Rectified photography — photography with a special camera lens that is gridded and without perspective distortion — was used to record decorative details. These photographs were then placed on a digitizing tablet at LAS and traced down to the smallest ball and reed or egg and dart using Bentley Microstation. Not only did the CADD process provide a great deal more detail than is normally found in a HABS package, the ability to repeat, mirror and cut/paste elements was a great time-saver.

With all this electronic information shareable and at one's fingertips, the restoration architects had what they needed to prepare construction documents. Each drawing has three or four levels of detail, which means tremendous versatility for reuse of the information. Thompson created an impressive, artistic set of presentation drawings that were used in dozens of presentations to state administrators. Thompson's CADD-born drawings were eventually used by the Capitol's gift shop to make T-shirts, note cards and other items promoting the newly restored landmark.

Communications Technology

In its own offices LAS uses a unified messaging system that integrates voicemail, email and faxes onto each employee's PC screen. While this type of system may not seem all that cutting-edge today, LAS implemented the technology two years ago when some of the features were still in development. The one-stop clearing house for communications saves staff time, as do special features like voice synthesizers to read email over the phone and the ability to remotely divert faxes to a different number such as a job site or a hotel room when traveling.

As mentioned earlier, LAS has a practice group tagged "Interactive" that integrates a whole range of technologies into client projects. This group is just as likely to be working with the Science practice group on a biotech laboratory as with the Historic Preservation group on the retrofit of a 19th-century building. For instance, LAS's renovation work on the House and Senate chambers at the Georgia State Capitol introduced teleconferencing facilities, internet-equipped desks, a hydraulic vote-tally board that disappears behind a reredos (wood screen) when not in use and a network of robotic cameras to track legislators as they are about to speak. This technology required over 80 miles of cabling to be pulled horizontally through plenum space beneath the floor and vertically through unused chimney flues. Inserting — and hiding-such technology can also produce new calls for old technology. Just one example: Because legislators' desks had a dozen more controls than they once did, Thompson designed a custom cast-brass console that blends with the original 1880s desks and furnishings while keeping the controls at lawmakers' fingertips.

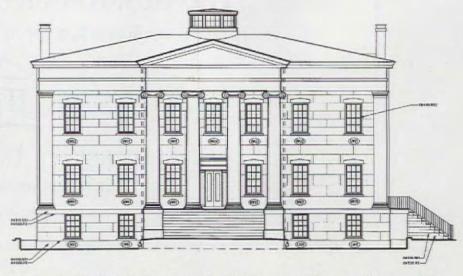
Restoration Technologies

When it comes to the "brick and mortar" side of building renovation, particularly historic buildings, the question is not so much one of taming technology as it is knowing what is out there and choosing well. Available technologies continue to expand and professional consensus on the best method is never guaranteed at any given time. Not only must the preservation team choose the right solution to execute, it must choose the right specialty contractor to do it. Turner and her team called on many experienced names for the State capitol project: Frank Welsh for paint analysis; Evergreene Studios and Conrad Schmidt Studios for decorative painting and stenciling; Andy Ladygo for plaster conservation; Howell Jones for wood-finish restoration; and Gene Irwin a national treasure — for plaster investigation and repair. Computers continue to play an ever-greater role in high-end restoration work. For the Capitol, eight pairs of identical oak exterior entry doors and the oak mantels in the Senate Chamber were crafted by Mortensen Woodwork using computer-aided carving. (Mortensen is a firm that Aeck's mother began working with more than 50 years ago.) The undercutting was finished up by hand, but the time savings from a computer-driven head start meant money saved that could be used for other parts of the restoration effort.

Perhaps without intending to, Turner can be philosophical about technology and the field of preservation. "Everything ultimately does and will deteriorate; we'll always be fighting for something we are about to lose. Which means we'll always be searching for a better way to defer the inevitable." As long as there are built things being lost, there will be new preservation technology. In Turner's mind, this is something to be optimistic about. "Working with Andy Ladygo on the plaster conservation at the Capitol, I was struck by the number of different conservation techniques he had in his bag of tricks. If one method didn't work, he had another, and yet another. It came down to the difficult decision of whether the original material was significant enough to warrant the expenditure of time and money. Even having worked in the profession all these years, the level of things possible amazes me." In the right hands, technology can do some pretty clever tricks.



The preservation team at LAS is also tackling another Georgia landmark, the Old Governor's Mansion in Milledgeville, Ga. (1837). Scott Thompson likes to remind out-of-towners that, contrary to what they may have been led to believe, General Sherman did not burn everything to the ground. The \$7-million project includes a complete interior and exterior restoration of the Greek Revival house and design of several new, yet compatible outbuildings. (Photo: Tim Vacula)



CADD drawings like this elevation of the Old Governor's Mansion will eventually be part of the project's construction documents. (LAS)

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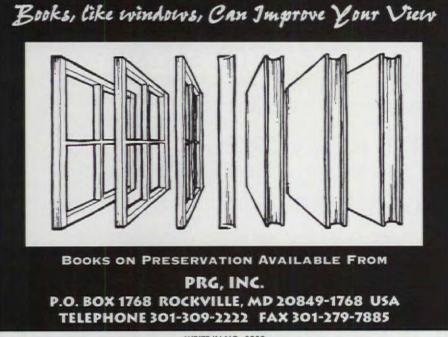
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CALENDAR OF EVENTS

AIA NY STATE CHAPTER ANNUAL MEETING & EXPO. The New York State Assn. of Architects is holding its annual meeting and trade show at the Brooklyn Marriott, Brooklyn, NY, Sept. 21-24, 2000. For more information on exhibiting, or other events, Fax request to (718) 837-3219 or e-mail toswan63@pipeline.com.

ANNUAL FRANK LLOYD CONFERENCE. "Broadacre City and Beyond: Frank Lloyd Wright's Vision for Usonia" is the general theme for the next annual conference of the Frank Lloyd Wright Building Conservancy, to be held in Minneapolis, MN, Sept. 20-24. For details, fax the Conservancy at (773) 784-7862, or log onto their website at www.savewright.org/FLW.

CLEANING MASONRY STRUCTURES. RESTORE, the non-profit preservation education corporation, is presenting a two-day Workshop on the Technology of Cleaning Masonry Structures at Stanford University, Palo Alto, Calif., Oct. 5-6, 2000. The workshop will equip participants to competently and responsibly undertake the cleaning of buildings. Participants are eligible for AIA Continuing Education credits. Tuition is \$400; for full details contact RESTORE at (212) 213-2020 or Fax (212) 213-3743.

PRESERVING THE RECENT PAST — II. Conference and related exhibition is a sequel to the 1995 Conference in Chicago, a milestone in advancing efforts to preserve our modern heritage. "Preserving The Recent Past — II," to be held in Philadelphia, Oct. 11-13, 2000, will address new and often controversial public policy and planning issues, technical and conservation treatments, and reuse strategies. For details, log onto the Conference website at www2.cr.nps.gov/tps/recentpast2.htm.

APT ANNUAL MEETING 2000. The next Annual Meeting of the Assn. for Preservation Technology (APT) will be held in Philadelphia, Pa., Oct. 11-13, 2000. The theme: "Preserving The Recent Past," picking up on the topic first examined at the 1995 Conference in Chicago.

For updated information, visit the conference website at: www2.cr.nps.gov/tps/recentpast2.htm.

ARTS & CRAFTS ARCHITECTURE CONFER-ENCE. The 2nd annual Arts & Crafts Conference in Perry, Iowa, focuses on "The Architecture of the Arts & Crafts Movement" and will be held Oct. 19-22, 2000. Speakers include Margaret Richardson, chairman of the Lutyens Trust, Wendy Hitchmough, the authority on C.F.A. Voysey, plus Richard Guy Wilson, Philip Howard, James Macaulay, and Edward Cullinan. For more details, contact Elaine Hirschl Ellis at (877) 797-6886, or via E-Mail at artconf@aol.com.

TWO-SEMESTER COURSE ON MASONRY CON-SERVATION. RESTORE, a non-profit educational corporation, is holding its 24th year of evening classes in New York City. Its two-semester course on Masonry Conservation for Architects, Engineers, Contractors, and Craftsmen begins Oct. 17, 2000, at 6:00 p.m. and classes run through March 2001; laboratory and field-workshop sessions continue through April and May 2001. Tuition for the 2-semester program is \$1,200, including lab fees and all course materials. For more details contact RESTORE at (212) 213-2020 or Fax (212) 213-3743.

PRESERVATION OF MASONRY STRUCTURES. A one-day workshop on evaluation and repair of masonry wall systems is being held Sat., Nov. 11, 2000, in New York City at the Brickwork Design Center. For detailed program information and reservations at \$200 per person, contact Michael Gurevich at (212) 684-4229. Or fax (212) 686-4387.

GRECIAN ARCHITECTURE IN THE U.S. A weekend Colloquium, Exhibit, Workshops, and Walking Tours sponsored by Classical America, The Merchant's House Museum, The University of Notre Dame, The Institute of Classical Architecture, and Traditional Building Magazine, Oct. 28-29, 2000 in New York City. The allday Colloquium focuses on: "Minard Lafever and His Circle: The Diffusion of Grecian Architecture in The United States, 1830-1860." The Workshops are aimed at enhancing the classical design skills of practicing professionals. For more details, see p. 11, or log onto www.classicist.org.

4th ANNUAL INTL. PRESERVATION TRADES WORKSHOP. IPTW 2000 will be held Nov. 13-15, 2000 at the Pennsylvania Farm Show Complex in Harrisburg. PA. IPTW 2000 will explore the theme "Convergence: Architecture and Craft" through demonstrations, presentations, and round-table discussions. Preservation tradespeople will demonstrate a variety of skills and traditional crafts, as well as the application of new techniques and technologies in the preservation of historic structures. For more information, log onto www.iptw.org. Or contact the Preservation Trades Network at phone (703) 406-8319, or fax (703) 450-0119.

RESTORATION SHOW/2001. The Restoration & Renovation Show & Conference will move to Washington, D.C., January 15-17, 2001. For more information, call (800) 982-6247, or log onto the Show Website at www.egiexhib.com.

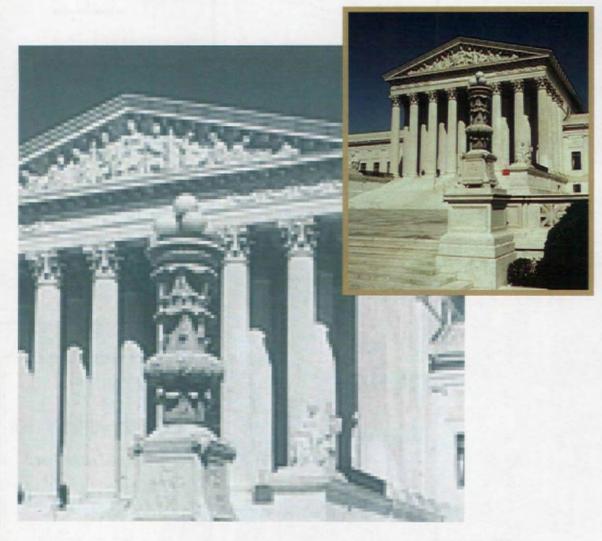
PRESERVATION EXPO 2001. The Saratoga Springs Preservation Foundation will hold its 3rd Annual Preservation Expo Feb. 24-25, 2001 at the City Center in Saratoga Springs, N.Y. The Expo will feature specialty products, artisans, and resources for the preservation, restoration, and renovation of historic buildings, in addition to seminars and workshops. For more information, log onto www.saratogapreservation.org.

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Not So Far Off

It is time to register for this year's International Preservation Trades Workshop, which will be held in Harrisburg, PA, November 13-15, 2000. If you postmark your registration before September 15, you will qualify for a lower fee.

As usual, the IPTW will feature a large number of hands-on demonstrations. This time, the site will be the Large Arena of the Pennsylvania Farm Show Complex.

Allow time on the evening of November 12th for the opening reception, which will be in the lobby of the Pennsylvania State Capitol, under its beautiful dome. The reception will be held jointly with the Mid Atlantic Association of Museums.

Visit our web site for more information, or call us up and ask questions. We look forward to hearing from you.

> Kathy Follett PTN Manager

IPTW	2000	Registration	Form
TH T AA	2000	negisu auon	I OLIH

TOTAL

Fill in all that apply:

Register for IPTW 2000 (\$355 for PTN members, \$395 for nonmembers).

Register for IPTW 2000 by September 15 (\$335 for members, \$380 for nonmembers).

Register for IPTW 2000 as a full-time apprentice or student (\$265).

Enclose proof of full-time apprentice or student status and apply by September 15.

Register for IPTW 2000 as a senior citizen (\$265 for PTN members, \$340 for nonmembers).

Join PTN (membership fee \$85; \$25 apprentice or student; \$300 corporation or institution)

Register for the Integrated Pest Management Seminar on November 16, 2000 at Ephrata Cloister (additional fee of \$60)

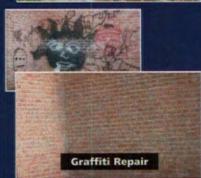
Register for the Hay Barrack project workshop on November 11-12, 2000 at Landis Valley Museum (additional fee of \$120)

Enclose a check or money order, payable to PTN, with this form. Send to PTN, P.O. Box 257, Mastic, NY 11950.

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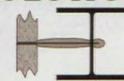
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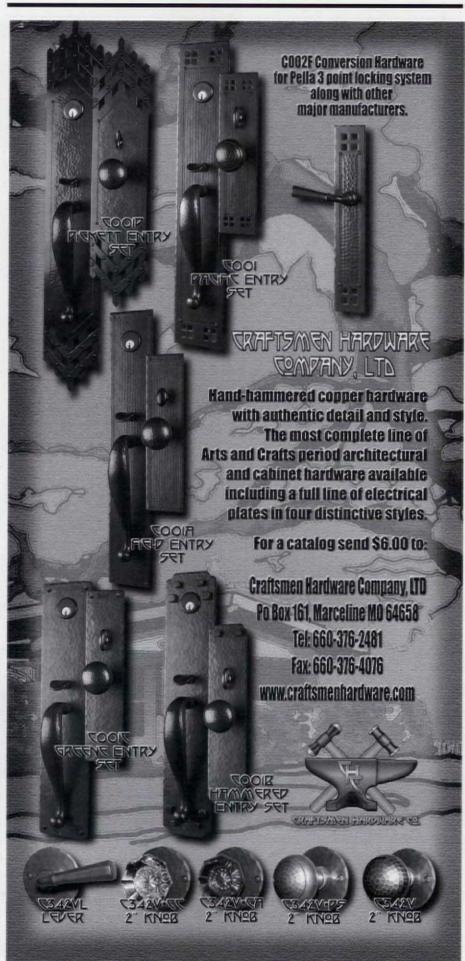
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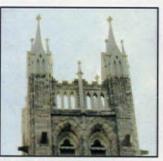
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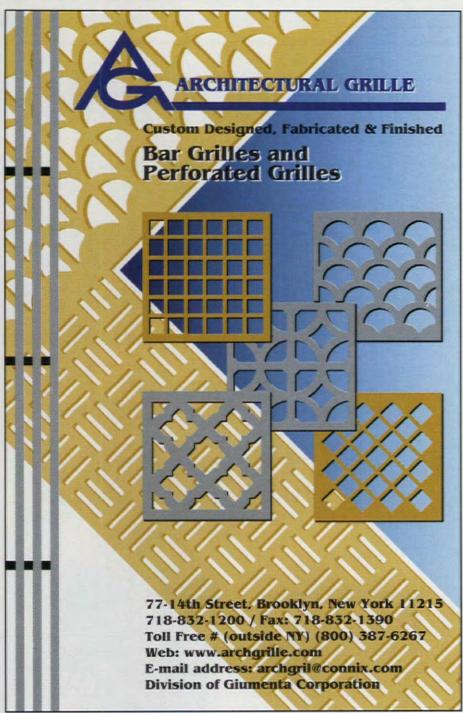
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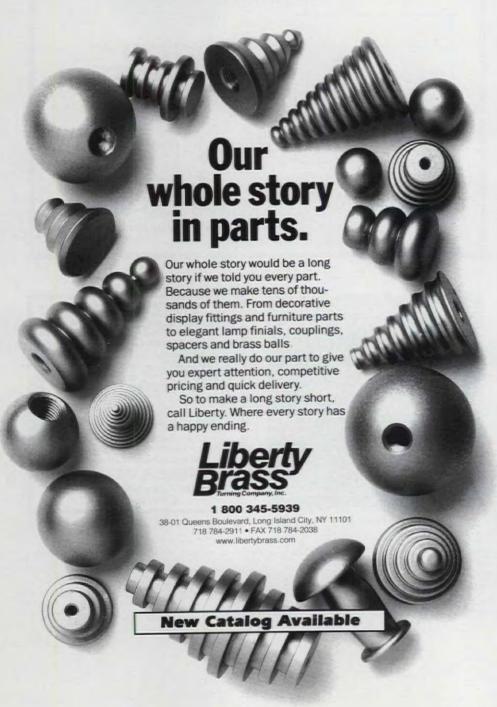
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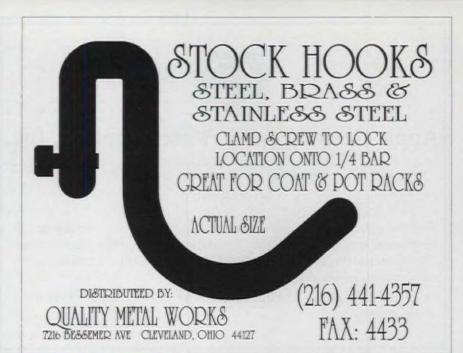
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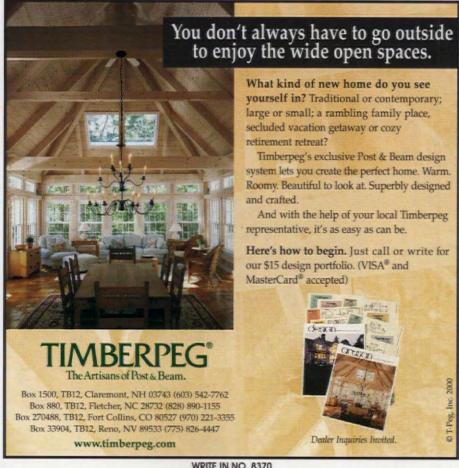
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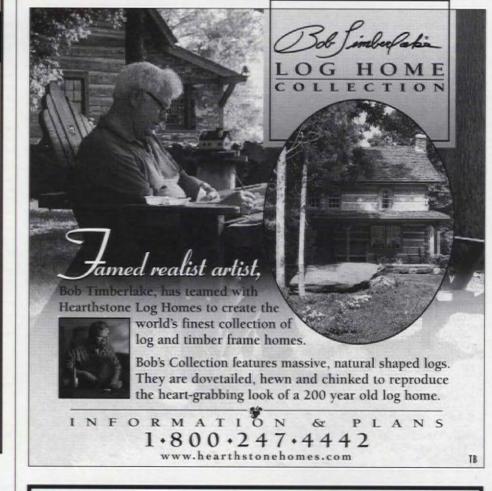


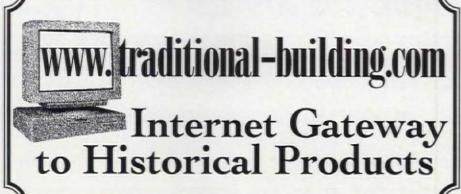
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A TURN FOR THE BETTER

Te are all forever in debt to the first person who realized the possibility of shaping wood by manipulating not the cutting blade but rather the wood itself. Turned wood has become something of an industry unto itself, as its applications extend in so many directions, from stavework columns and solid posts to more-delicate finials, newels, and balusters, and in shapes from simple cylinders with flowing lines

to intricate spiral and rope twists. With the *SourceList* below and on page 20, you'll gain a better sense not only of the potentials in this field, but of the range of different artisans who turn wood. From a survey of companies in our database, we consolidated this listing of 29 expert wood turners; we've also included data on people who will make custom turnings, the maximum diameters and heights the turners offer, and what wood species they can supply.

☆ Woo	RADITIONAL BUILD TURNINGS	Soi	11	C	e.	L	is	t			SI# 00	0110
COMPILED	BY COLE GAGNE			sters		Twists	Columns					
COMPANY	SPECIALTY	Literature	Finials	Newels/Balusters	Solid Posts	Spiral/Rope Twists	Stavework C	Other	Max. Dia.	Max. Ht.	Wood Species	% Custon
American Wood Column Corp. 718-782-3163; Fax: 718-387-9099 913 Grand St. Brooklyn, NY 11211	Custom turnings to match originals; wood columns and balusters in any dimension — fluted, plain, or twisted. All types of porch parts: balusters, newel posts, all size finials in any wood specified.	Free Write in No. 1308	V	~	V	V	~					75%
Architectural Products by Outwater, LLC 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, more.	Free Write in No. 2553	~	~	~		~		36 in.	26 ft.	Any	10%
Bellas Artes Inc. 526-333-3622; Fax: 626-333-2677 4837 #A Proctor Ave. a Puente, CA 91746	Wood-carving studio.	Free Write in No. 3141						Carved columns				100%
Boston Turning Works 517-924-4747; Fax: 617-924-4949 www.bostonturningworks.com Watertown, MA 02172	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information	v	~		V						80%
Chadsworth's 1.800.Columns 100-486-2118; Fax: 910-763-3191 oww.columns.com Historic Wilmington, NC 28401	Custom and stock columns, pillars, pilasters, and posts; capitals; interior and exterior; plain or fluted; round, square, belley, octagonal; all styles and sizes; wood, PolyStone, fiberglass; job-site delivery; worldwide shipping.	Free Write in No. 180		V	~		~					75%
Classic Architectural Specialties 600-662-1221; Fax: 972-552-9054 cvw.casdesign.com Forney, TX 75126	Full-service supplier of architectural components, furnishing complete packages for period commercial exteriors, from millwork to street lighting.	Free Write in No. 4200	~	~	-	~	~					50%
olonial Columns Mfg. Inc. 13-681-0044; Fax: 713-681-3745 102 Pasket Lane louston, TX 77092	Supplies columns to the building community; can furnish projects from an entire complex to an entryway; wood, metal, and polymer composite columns. Specialists in hollow columns and stavework.	Free Write in No. 33					~					90%
cumberland Woodcraft Co. 100-367-1884; Fax: 717-243-6502 www.cumberlandwoodcraft.com carlisle, PA 17013	Architectural & period millwork, fixtures, & decorative treatments. Commercial projects: ornate bars to libraries & entertainment centers. Also, carvings, carved signs, appliques, fretwork, grilles, wood ceilings, screen doors.	Free Write in No. 1310	~	~	~		~				Poplar, oak, mahogany, cherry	25%
bykes Lumber Co. 101-867-0391; Fax: 201-867-2981 www.cyberyard.com/dykes Weehawken, NJ 07087	Architectural woodwork supplier: stock doors; stock and custom mantels; all types of wood windows, including custom shapes & sizes; molding profiles; raised-panel moldings, lumber, plywood; corbels, finials, columns, more.	Free Write in No. 3100	~	~	~	~	~					30%
inkeboll Designs 10-532-1400; Fax: 310-532-2042 ww.enkeboll.com arson, CA 90746	Extensive array of architectural elements carved in solid woods: moldings, columns, capitals, newels, corbels, onlays, panels; available in maple, red oak, or cherry. Catalog set \$20, refundable with order.	Free Write in No. 5770						Carved columns, capitals				0%
uropean Woodturning 15-468-6565; Fax: 415-468-0338 155 San Benito Rd. Brisbane, CA 94005	Custom and production woodturning in any wood; architectural turnings (newels, balusters, finials, columns, etc.); furniture parts; long-hole boring (for newel posts, lamp posts, lamp bases); fluting and spirals.	Free Write in No. 39	~	~	~	~		Lamp posts				100%
agan Design & Fabrication, Inc. 103-937-1874; Fax: 203-937-7321 14 Railroad Ave. West Haven, CT 06516	Custom hand-turned columns, cylinders, rope twists, spirals, etc. Also, capitals and other carvings. Can produce exact duplicates for restoration; hardwoods a specialty.	Free Write in No. 8210					~	Custom turnings	44 in.	21 ft. 4 in.	Any	90%
Glacial Wood Products 600-804-6885; Fax: 320-346-2099 www.mncrafted.com/glacialwood/ Brooten, MN 56316	Manufacturer of all types of quality custom turnings, trim blocks, and plinth blocks. Specialist in close-tolerance work and exact duplications. Feature 12-in-diameter balls, caps, bases, finials, balusters, and newel posts.	Free	~	~	~	~		Balls, trim blocks, treads, columns	16 in.	8 ft. 6 in.	Cherry, oak, maple, many more	98%
Good Wood Inc. 40-484-1500; Fax: 740-484-1501 Jina Rd., P.O. Box 35 Selmont, OH 43718	Wood turner specializing in small parts such as knobs, gallery spindles, toy & crafts parts. Also, parts for furniture & OEM sectors. 2,500 pieces or more.	Free							2-3/4 in.	48 in.	As specified	80%
crass Wood Turning Co. 15-627-0305; Fax: Same as phone 46 N. 2nd St. Philadelphia, PA 19106	Custom wood turning in any variety.	Free	~	~	~			Turned legs	14 in.	12 ft.	Any	100%
I.A. Stiles Company 00-447-8537; Fax: 207-854-3863 www.hastiles.com Vestbrook, ME 04098	Supplies turned, shaped, and molded wood products, including columns and capitals, to custom order in a variety of softwoods and hardwoods.	Free Write in No. 377	-	~	~	~	~					90%
B&G 00-264-4HBG; Fax: 334-566-4629 www.hbgcolumns.com roy, AL 36081	Low-maintenance porch products; Polyurethane moldings and entrances. PermaCast columns, PermaPosts, PermaPorch railing.	Free Write in No. 380		~	~			Polyure- thane posts				20%
MS Wood Products 18-709-8674; Fax: 818-709-8683 825 Shirley Ave. forthridge, CA 91324	Rope moldings from 3/8-in. to 3-in. dia.; rope columns from 4-in. to 24-in. dia. Any lengths, size, species. Rope, fluted, and twist designs can be accommodated to furniture or stairs. Plinth blocks for door surrounds.	Free Write in No. 6320	~	~	~	~						1009
Melton Classics, Inc. 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com .awrenceville, GA 30042	Columns and pilasters plain or fluted shafts in Classical or custom designs. Any species. Interior, exterior, round, or square for paint or stain. Fiberglass, composite, and synthetic-stone columns, balustrades, and moldings.	Free Write in No. 4100	v	~	~	~						100%



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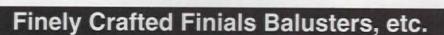
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Water Traditional Building's Wood Turnings SourceList

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COMPANY	SPECIALTY	Literature	Finials	Newels/Balusters	Solid Posts	Spiral/Rope Twists	Stavework Columns	Other	Max. Dia.	Max. Ht.	Wood Species	% Custom
Mohamad Wood Turning Co. 718-417-0025; Fax: 718-417-0021 28 Meadow St. Brooklyn, NY 11206	Specializes in custom wood spirals, turnings, balusters, and columns in all classical styles; load-bearing for interior or exterior use. Can furnish fluting, reeding, rope twists, and custom carving. Fractional columns available.	Free Write in No. 50	~	~	~	~						100%
New England Woodturners 860-388-1943; Fax: Same as phone www.newenglandwoodturners.com Old Saybrook, CT 06475	Hand-crafted balusters and newels for stairbuilding; rope and barley twist, fluting and reeding. Any wood available. Porch or interior stair. Commercial, residential.	Free Write in No. 3540	V	~	~	~	~	Finials, porch posts, columns	18 in.	15 ft.	Any available	100%
Northcott Wood Turning 603-756-4204; No Fax RR 1, Box 624 Walpole, NH 03608	Family-owned and -operated business has produced pegs for timber framing since 1977. Pegs are made of air-dried oak or ash and are available in numerous standard sizes.	Free						Hardwood pegs for timber frames				10%
Rich Company 203-375-1678; Fax: 203-375-0903 www.darichco.com Stratford, CT 06497	An experienced woodturner who is able to handle any job, from one-of-a-kind sets of table legs to accurately duplicating spindles from samples or drawings.	Free	~	~					II in.	3 ft. 4 in.	Any	100%
Royal Corinthian 888-265-8661; Fax: 630-876-3098 www.royalcorinthian.com Wheaton, II. 60189	Manufactures columns, balusters, and rails in synthetic polymer/stone materials.	Free Write in No. 76		~	~			Polymer columns				25%
Schwerd Mfg. Co., A.F. 412-766-6322; Fax: 412-766-2262 3215 McClure Ave. Pittsburgh, PA 15212	Column specialist: Standard and custom wood columns and pilasters for paint or stain finishes; several styles of ornamental capitals; can match existing columns. Aluminum bases available for even-diameter exterior columns.	Free Write in No. 1610					~	Lamp posts	48 in.	35 ft.	Various	90%
Shafron's Custom Spindling 724-238-2717; Fax: Same as phone HC 64 Box 506A Rector, PA 15677	Rustic hand-crafted spindles; railing systems can be used for interior and exterior applications.	Free		~								100%
Superior Moulding, Inc. 800-473-1415; Fax: 818-376-1314 5953 Sepulveda Blvd. Van Nuys, CA 91411	Array of standard and non-standard moldings and related finish materials in any size, style, shape, and species; short turnaround times.	Free Write in No. 138										55%
Vintage Woodworks 903-356-2158; Fax: 903-356-3023 www.vintagewoodworks.com Quinlan, TX 75474	Extensive selection of wood porch parts, including turned posts, turned and sawn balusters, railings, brackets, corbels, custom-length spandrels, and more. 224-page Master Reference Catalog; 208-page Porch Design Book.	Free Write in No. 1061	~	~	~	~		Capitals				20%
Wood Factory 936-825-7233; Fax: 936-825-1791 111 Railroad St. Navasota, TX 77868	Historically accurate millwork reproductions, interior & exterior: doors, screen doors, benches, stair parts, railings, porch parts, custom-turned column bases, newels, and more. Specialist in custom matching existing parts.	Free Write in No. 7120	V	~	V				24 in.	16 ft.	Any	90%

WOOD TURNINGS PORTFOLIO

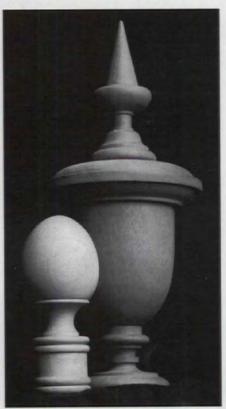
For complete information on these companies, consult the SourceList on pp. 18-20.



Some typical woodturnings by CUM-BERLAND WOODCRAFT CO., INC., are shown here surrounded by a selection of the firm's period millwork. Write in No. 1310



H.A. STILES CO.'s array of woodturnings includes balusters, furniture components, newel posts, handles, and more. Write in No. 377



EUROPEAN WOODTURNING produced these custom finials in maple, left, and mahogany, right. The firm also offers a range of stock designs. Write in No. 30



JMS WOOD PRODUCTS' rope columns are available in a number of designs, such as item #G pictured here, and sizes. Write in No. 6320



Turned newels, balusters, and columns in an array of spiral designs are available from MOHAMAD WOODTURNING. Write in No. 50



VINTAGE WOOD WORKS turns a variety of balusters and newel posts for both interior and exterior applications. Write in No. 1061

IN SUPPORT OF COLUMNS

It's too bad the word "columnist" is reserved only for people who write regular features for newspapers; as far as the editors of *Traditional Building* are concerned, the true "columnists" are those of us who love columns — and capitals and even, yes, pilasters. The column is so beloved today that you can see them in place even when they have no structural role to play: better a non-load-bearing column than no column at all....

The SourceList starting below gathers together 94 suppliers of columns and capitals (refined from an initial survey of column companies in our database).

You'll find information on suppliers of solid, hollow, and stavework columns, as well as the maximum heights and diameters available. We've listed the materials they work in, from wood and metal to polymer composites, fiberglass, plaster/gypsum, and of course stone, both natural and cast. There's also data on suppliers of capitals and on the people who can take custom orders. The result is the most detailed and far-reaching buyer's guide to columns and capitals currently in print.



CTRADITIONAL BUILDING'S CAPITALS SourceList

CSI# 06400

COMPANY	SPECIALTY	Literature		COLU	MNS		CAPITALS	%
		Dittitute	Type	Materials	Max. Dia.	Max. Ht.	Materials	Custon
A&M Victorian Decorations, Inc. 626-575-0693; Fax: 626-575-1781 2411 Chico Ave. South El Monte, CA 91733	Manufactures many architectural elements in either gypsum or precast concrete: columns, molding, mantels, balustrades, wall caps, pavers, quoins, stair treads, planters, fountains, and gazebos; custom designs and finishes.	Free Write in No. 7470	Hollow	Cast stone, plaster/gypsum	24 in.	II ft.	Plaster/gypsum, cast stone	50%
Agrell & Thorpe, Ltd. 415-381-9474; Fax: 415-381-9475 www.agrellandthorpe.com Mill Valley, CA 94941	Master carving studio produces a wide range of carved products in wood, stone, and marble; for commercial, residential, and religious buildings. Worldwide experience.	Free		Natural stone			Stone, wood, marble	100%
Allen Architectural Metals, Inc. 800-204-3858; Fax: 256-761-1967 www.allenmetals.com Talladega, AL 35161	Custom ornamental metal castings, both new and replications of historical styles; available in cast and ductile iron and alloys, including aluminum and bronze.	Free Write in No. 1005		Cast iron, cast aluminum, cast bronze			Metal	95%
American Wood Column Corp. 718-782-3163; Fax: 718-387-9099 913 Grand St. Brooklyn, NY 11211	Custom turnings to match originals; wood columns and balusters in any dimension — fluted, plain, or twisted. All types of porch parts: balusters, newel posts, all size finials in any wood specified.	Free Write in No. 1308	Hollow, Stavework, Solid	Wood, polymer composite	36 in.	40 ft.	Wood, polymer composite, plaster/gypsum, wood, composition	75%
Archicast 901-323-8717; Fax: Same as phone www.archicast.com Memphis, TN 38112	Custom caster, moldmaker, and sculptor repairs and reproduces ornamental plasterwork in fireproof GRG.	Free See website for more information					Plaster/gypsum	50%
Architectural Antiquities 207-326-4938; No Fax Harborside, ME 04642	Primarily Victorian-era antiques, including plumbing, hardware, interior and exterior lighting, columns, brackets, doors, windows, ironwork, fretwork, beams, stair parts, and mantels all cleaned and refurbished. 45-min. video.	Free Write in No. 893	Solid, Hollow					0%
Architectural Facades Unlimited 408-846-5350; Fax: 408-846-6911 www.archifacades.ebb.net Gilroy, CA 95020	Interior/exterior precast architectural ornament. On-site, full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, mantels, & fountains. Cement, GFRC, GFRG; available in 15 standard colors.	Free Write in No. 1470	Hollow	GFRC, GFRG	24 in.	14 ft.	Cement, GFRC, GFRG	25%
Architectural Fiberglass Corp. 800-439-2000; Fax: 516-842-4790 1395 Marconi Blvd. Copiague, NY 11726	Reproduction of original ornamentation, or replacement from a large selection of stock styles and sizes; lightweight, easy-to-install FRP; molded-in colors and texture; class-I fire-retardant material.	Free Write in No. 6400					FRP	75%
Architectural Iron Co. 300-442-IRON; Fax: 570-296-IRON www.archironco.com Milford, PA 18337	Full-service restoration and custom-casting company with foundry and blacksmithing capabilities for new and restoration work. Field removal and installation services.	Free	Hollow	Metal	16 in.	18 ft.	Metal	95%
Architectural Pottery 888-ARCH-POT; Fax: 714-898-5109 www.arcat.com Midway City, CA 92655	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20						10%
Architectural Products by Outwater 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, & more.	Free Write in No. 2553	Hollow, Stavework	Wood, polymer composites, plaster/ gypsum, metal	36 in.	26 ft.	Polymer composite, plaster, metal	10%
Architectural Sculpture & Restorations, Ltd. 212-431-5873; Fax: 212-334-4230 242 Lafayette St. New York, NY 10012	This shop specializes in casting architectural elements in plaster; custom work available. Also, cast-plaster sculpture.	Free Write in No. 4590		0/1			Plaster	10%
Artisan Group 531-354-7700; Fax: 631-488-6050 www.artisangroup.com New Hyde Park, NY 11040	Complete line of ornamental plaster and FRG moulding, from a simple column cover to the most ornate cornice. Wide range of media, including stucco, EIFS, Venetian, marmarino, tinted, and flat plaster.	Free Write in No. 895					Plaster	75%
Ashworth Architectural Products 706-692-0192; Fax: 706-692-0193 www.ashwortharchitecturalproducts.com asper, GA 30143	The firm has approximately 50 capitals available in diameters ranging from 4 in. to 24 in., as well as custom design and restoration capacities.	Free					Plaster	80%
Ball Consulting 724-266-1502; Fax: 724-266-1504 www.ball-consulting-ltd.com Ambridge, PA 15003	Supplies Forton-modified-gypsum casting system for creating interior and exterior architectural and landscape elements. Consulting and technical service. GFRC and Polytek mold-making materials. Studio for training and prototyping.	Free Write in No. 7260		GFRC, Forton- modified gypsum			GFRC, Forton- modified gypsum	100%
Boro Plastering Corp. 112-684-3242; Fax: 212-684-3243 1182 Broadway New York, NY 10001	Founded in 1937, plasterers of distinctive residences: specializing in run-in-place crown moldings, cast ornamental moldings, groin vault and barrel ceilings, domes, niches, conventional 3-coat plastering, and veneer plastering.	Free Write in No. 825					Plaster	75%
Boston Turning Works 517-924-4747; Fax: 617-924-4949 www.bostonturningworks.com Watertown, MA 02172	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information						80%
Boston Valley Terra Cotta 116-649-7490; Fax: 716-649-7688 1860 S. Abbott Rd. Orchard Park, NY 14127	Manufactures quality architectural terra cotta and roof tile for restoration and new buildings. Site and survey work: photo documentation, drawings/CAD, computer spreadsheets, moldmaking, fine detail work, and color matching.	Free Write in No. 160					Terra cotta	100%
Brass Knob's Back Doors 202-265-0587; Fax: 202-265-0789 www.thebrassknob.com Washington, DC 20009	A warehouse full of architectural antiques and salvaged building materials, featuring a large volume of doors, bathtubs, sinks, columns, capitals, windows, mantels, and more.	Free		Wood			Wood, plaster/gypsum	0%



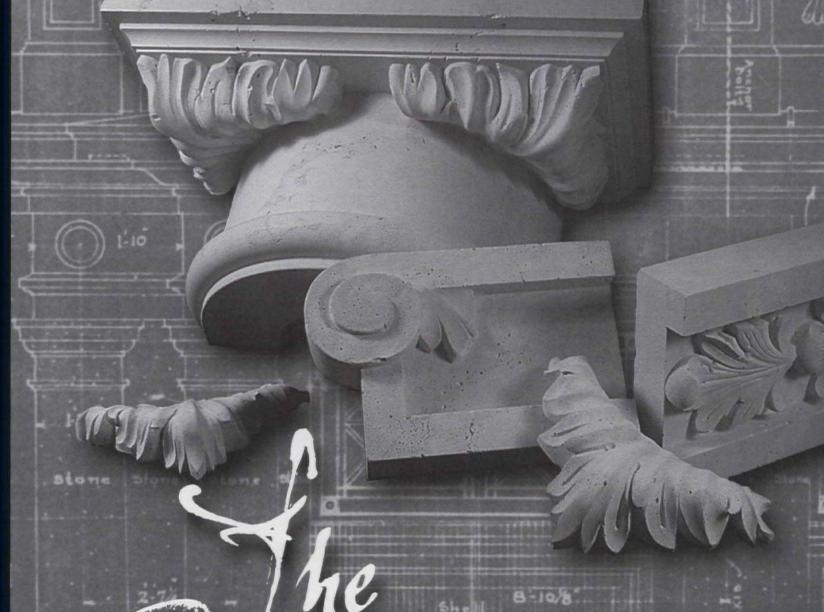
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COMPANY	SPECIALTY	Literature	COLUMNS The Materials May Die May Ut				CAPITALS Materials	% Custom
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808	Туре	Materials Stone	Max. Dia.	Max. Ht.	Materials Stone	75%
Cammco Casting 377-922-6626; Fax: 256-832-0169 2510 Electronics Drive Inniston, AL 36207	"EverLast" FRP fiberglass porch posts are rot-proof, hollow, and load-bearing. Posts available in 5-in. and 6-in. dia.; and in 8-ft., 9-ft., and 10-ft. lengths. Custom lengths available, as well as fiberglass columns.	Free Write in No. 2566	Hollow	FRP				10%
Cantera Especial 600-564-8608; Fax: 818-907-0343 vww.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31	Solid, halves	All stone types, precast	Any size	Any size	Stone, GFRC, GRG, FMG	100%
Carved Stone International 558-720-0276; Fax: 858-720-0272 www.carvedstoneint.com colana Beach, CA 92075	Designer, manufacturer, importer, and wholesaler of interior and exterior architectural elements in natural hand-carved Indian sandstone.	Free Write in No. 2588		Sandstone			Sandstone	100%
Casa de Cantera, House of Stone 800-304-6135; Fax: 805-382-1057 8600 South Harbor, Suite 114 Oxnard, CA 93035	Own and operate a stone factory specializing in custom fountains, columns, moldings, fireplace mantels, and more; installation and design.	Free Write in No. 1278	Solid	Stone			Stone	100%
Cast Designs & Supply, LLC 031-685-0536; Fax: 931-685-0990 www.castdesignsupply.com Shelbyville, TN 37162	Complete line of interior and exterior architectural products, hand-crafted in reinforced plaster, including moldings, medallions, capitals, corbels, cartouches, panels, mantels, and domes. Custom restoration.	Free Write in No. 451					Plaster	25%
Casting Designs, Inc. 800-329-7373; Fax: 817-293-8644 www.castingdesignsinc.com Fort Worth, TX 76140	Custom GRG and GFRC architectural shapes, including domes, capitals, column covers, trims, coves; in-house mold shop and design and drafting department.	Free	Hollow	Plaster/gypsum			Plaster/gypsum	100%
Chadsworth's 1.800.Columns 800-486-2118; Fax: 910-763-3191 www.columns.com Historic Wilmington, NC 28401	Custom and stock columns, pillars, pilasters, and posts; capitals; interior and exterior; plain or fluted; round, square, belley, octagonal; all styles and sizes; wood, PolyStone, fiberglass; jobsite delivery; worldwide shipping.	Free; Write in No. 1580 for PolyStone, No. 180 for Wood	Solid, Hollow, Stavework				Plaster	75%
Chemcrest Architectural Products 300-665-6653; Fax: 888-715-1813 www.chemcrest.com Winnipeg, MB, CANADA R3H 0P5	Building components & architectural details in high-density polyurethane and pre-coated EPS, for interiors and exteriors: medallions, wall niches, crown moldings, balustrade and railing systems; door, window, & other exterior trim.	Free Write in No. 2764	Hollow, Box	Polyurethane, EPVC board	14 in.	12 ft.	Polyurethane	10%
Classic Architectural Specialties 800-662-1221; Fax: 972-552-9054 www.casdesign.com Forney, TX 75126	Full-service supplier of architectural components, furnishing complete packages for period commercial exteriors, from millwork to street lighting.	Free Write in No. 4200		Wood, fiberglass, polymer			Plaster, polymer	0%
Classic Builder's Resource 516-767-7406; Fax: 516-767-7197 yww.cme4wood.com Port Washington, NY 11050	Supplier of architectural details in wood, plaster, GRG, and polymer-modifed gypsum; for interior and exterior applications. Will ship anywhere.	Free	Hollow, Stavework	Wood, polymer composites, plaster/gypsum	26 in.	24 ft.	Stone, wood, polymer composites, plaster/gypsum	60%
Classic Innovations 800-891-5117; Fax: 706-820-2562 207 Hooker Cemetery Rd. Wildwood, GA 30757	Manufacturer of load-bearing, architecturally correct composite columns, round smooth and fluted, square smooth; also, capitals, bases.	Free Write in No. 907		Polymer composites	16 in.	16 ft.	Polymer composites	10%
Classic Mouldings, Inc. 416-745-5560; Fax: 416-745-5566 www.classicmouldings.com Foronto, ON, CANADA M9L 1Y1	Over 2,000 architectural decorative elements appropriate for interior use, including pilasters, domes, cartouches, cornice moulding, niches, capitals, columns, decorative ceiling panels, and fireplace mantels. Custom or stock.	Free Write in No. 998	Hollow	Plaster/gypsum	16 in.	16 ft.	Plaster/gypsum	10%
Colonial Castings Inc. 505-688-8901; Fax: 305-688-8932 15301 N.W. 34th Ave. Miami, FL 33054	Extensive range of ornamental architectural panels, load-bearing columns, newels, fences, gates, outdoor lamps, mailboxes, and furniture.	Free Write in No. 4820	Hollow					5%
Colonial Columns Mfg. Inc. 713-681-0044; Fax: 713-681-3745 2102 Pasket Lane Houston, TX 77092	Supplies columns to the building community; can furnish projects from an entire complex to an entryway; wood, metal, and polymer composite columns. Specialists in hollow columns and stavework.	Free Write in No. 33	Hollow, Stavework	Wood, polymer composite, metal				90%
Concrete Designs Inc. 800-279-2278; Fax: 520-624-3420 8650 S. Broadmont Dr. Fucson, AZ 85713	Manufactures over 1,600 precast-concrete and GFRC items, including moldings, door and window surrounds, balustrades, columns, mantels, and site furnishings. Also, GFRC details; custom work available.	Free Write in No. 5190	Hollow	Precast concrete, GFRC	22 in.	As specified	Precast concrete, GFRC	10%
CopperCraft, Inc. 800-486-2723; Fax: 817-490-9661 www.coppercraft.com Keller, TX 76248	Firm's traditional metalworking skills and modern technology provide high-quality architectural sheetmetal: spires, finials, weathervanes, dormers, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, and more.	Free Write in No. 1490	Hollow	Plaster/gypsum, cement	72 in.		Plaster/gypsum, cement	50%
Cumberland Woodcraft Co. 800-367-1884; Fax: 717-243-6502 www.cumberlandwoodcraft.com Carlisle, PA 17013	Architectural & period millwork, fixtures, & decorative treatments. Commercial projects from ornate bars to libraries & entertainment centers. Also, carvings, carved signs, appliques, fretwork, grilles, wood ceilings, screen doors, columns.	Free Write in No. 1310					Wood	25%
Custom Castings Northeast, Inc. 814-234-8612; Fax: 814-234-8745 www.customcastings.net Lemont, PA 16851	Interior and exterior molded architectural ornament in GRG and GFRC. Sells both stock patterns and custom work.	Free					GRG, GFRC	20%
David Kucera, Inc. 345-255-1044; Fax: 845-255-1597 39 Steves Lane Gardiner, NY 12525	Architectural-sculpture service with expertise in historic-landmark restoration, new construction (commercial & residential), color matching & fine detail work. Site surveys, drafting & engineering services, field support available.	Free Write in No. 2517						100%
Decorators Supply Corp. 173-847-6300; Fax: 773-847-6357 www.decoratorssupply.com Chicago, IL 60609	14,000 patterns for period architectural elements and molded ornament, from ceiling medallions to mantels, in plaster of paris, compo, and wood since 1893. Set of 5 catalogs, \$30.	Free Write in No. 210					Plaster, wood, compo	15%
Dixie Cut Stone & Marble, Inc. 800-968-8282; Fax: 517-777-9700 www.dixiestone.com Bridgeport, MI 48722	Firm has carved natural stone since 1960. Custom limestone fireplaces; also, carvings, door and window surrounds, balusters, columns, and signs; stone includes Indiana buff limestone, Texas cream, and Mankato gold.	Free Write in No. 279	Solid	Stone	28 in.	10 ft.	Stone	100%
DMS Studios 718-937-5648; Fax: 718-937-2609 www.dms-studios.com Long Island City, NY 11101	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and column capitals. Will design, sculpt, or fabricate anything in stone or metal.	Free; Write in No. 9100 for Mantels, No. 262 for Sculpture	e				Marble, limestone	90%
duoMatrix, Inc. 888-765-9835; Fax: 610-252-6200 www.smooth-on.com Easton, PA 18042	Has a polymer additive system for alpha-gypsum plasters. Matrix- G enhances physical and performance properties. Castings are stronger, have a shorter de-mold time, and exhibit weather- and UV-resistance.	Free Write in No. 811		Polymer additive system for alpha- gypsum plasters				N/A
Dura Art Stone 800-821-1120; Fax: 909-350-9632 www.duraartstone.com Fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations; columns.	Free Write in No. 3082	Solid, Hollow	Precast, GFRC	72 in.	As specified	Cast stone, GFRC	50%

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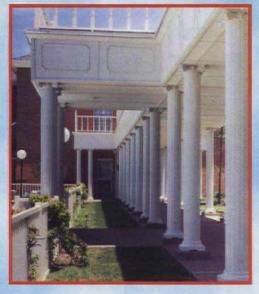
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COMPANY	SPECIALTY	Literature	Type	COLU. Materials	Max. Dia.	Max. Ht.	CAPITALS Materials	% Custon
Edon Corp. 215-672-8050; Fax: 215-672-9014 www.edon.com Horsham, PA 19044	Designs, engineers, and manufactures FRP ornamentation: columns, moldings, cupolas, steeples, cornices, domes, balustrades, sculpture and statuary. Historical replication; theme parks, hotels, and casinos.	Free Write in No. 1890	-1100	FRP	Jan Dill	ARCI	FRP	30%
Elizabeth Street 212-644-6969; Fax: 212-644-8090 1176 Second Ave. New York, NY 10021	Antique garden ornament; custom stonework; recreations of antique garden ornament in the same methods and materials as the originals.	Free Write in No. 3001			4		Stone	1009
Enkeboll Designs 310-532-1400; Fax: 310-532-2042 www.enkeboll.com Carson, CA 90746	Extensive array of architectural elements carved in solid woods: moldings, columns, capitals, newels, corbels, onlays, panels; available in maple, red oak, or cherry. Catalog set \$20, refundable with order.	Free Write in No. 5770		Wood			Wood	0%
European Woodturning 415-468-6565; Fax: 415-468-0338 255 San Benito Road Brisbane, CA 94005	Custom and production woodturning in any wood; architectural turnings (newels, balusters, finials, columns, etc.); furniture parts; long-hole boring (for newel posts, lamp posts, lamp bases); fluting and spirals.	Free Write in No. 39	Solid	Wood				1009
Fagan Design & Fabrication, Inc. 203-937-1874; Fax: 203-937-7321 44 Railroad Ave. West Haven, CT 06516	Custom hand-turned columns, cylinders, rope twists, spirals, etc. Also, capitals and other carvings. Can produce exact duplicates for restoration; hardwoods a specialty.	Free Write in No. 8210	Solid, Hollow, Stavework	Wood	44 in.	24 ft.	Plaster/gypsum, wood	90%
Fairplay Stonecarvers 440-775-7878; Fax: 440-775-7979 www.fairplaystonecarvers.com Oberlin, OH 44074	Custom-designed stone and marble architectural and landscape ornament and sculpture. Reproduction, repair, and restoration of hand-carved ornamental sculpture, fireplaces, relief carvings, urns, doorways, fountains, capitals, bases.	Free Write in No. 868					Stone	1009
Fieldstone Center Inc. 800-633-6075; Fax: 770-483-9255 www.fieldstonecenter.com Conyers, GA 30012	Supplier of stone and masonry products, including such natural stones as granite, bluestone, limestone, and slate, and cast-stone items such as balustrades, keystones, quoins, and columns. Custom orders accepted.	Free Write in No. 2592	T.	Cast stone, limestone & other natural stones			Stone	1009
Fischer & Jirouch 216-361-3840; Fax: 216-361-0650 www.fischerandjirouch.com Cleveland, OH 44103	Wide selection of hand-crafted plaster architectural ornament for interior and exterior applications, including columns, capitals, ceiling medallions, and fireplace mantels.	Free Write in No. 1960					Plaster	20%
Flex Trim Industries, Inc. 800-356-9060; Fax: 800-874-6832 www.flextrim.com Rancho Cucamonga, CA 91730	Flexible molding for interior and exterior use; can be made to shape, profile, or contour; radius molding for curved walls, round windows, doors, arch openings, or other curved building contours; made from a polymer-composite resin.	Free Write in No. 2579						75%
Florentine Craftsmen 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101	Garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Also, weathervanes. Custom work a specialty.	Free Call for more information						50%
Formglas, Inc. 416-635-8030; Fax: 416-635-6588 www.formglas.com Toronto, ON, CANADA M3J 2A7	Supplies products in glass-fiber reinforced gypsum (GRG), cast metal, and cast stone; molded products for interior commercial, retail, and institutional projects. Some standard shapes are available.	Free Write in No. 2556	Hollow	GRG, GRC, cast stone, cast metal	As specified	As specified	GRG, GRC, cast stone, cast metal	90%
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 2555		Stone			Stone	609
Goodwin Associates 716-248-3320; Fax: 716-387-0153 P.O. Box 18605 Rochester, NY 14618	Columns, column covers, pilasters, capitals, and bases; interior and exterior applications; available in fiberglass, wood, polyurethane, cultured marble, and Forton MG; custom designs and sizes.	Free Write in No. 806	Hollow, Stavework	Wood, polymer composites, fiber- glass, Forton-MG	48 in.	40 ft.	Wood, polymer composites, plaster, Forton MG	509
H.A. Stiles Company 800-447-8537; Fax: 207-854-3863 www.hastiles.com Westbrook, ME 04098	Supplies turned, shaped, and molded wood products, including columns and capitals, to custom order in a variety of softwoods and hardwoods.	Free Write in No. 377		Wood				90%
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	The firm's range of standard designs in reconstructed limestone offers architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Free Write in No. 4020	Hollow	Cast stone	19 in.	18 ft.	Cast stone	25%
Hartmann Sanders/Dixie-Pacific 800-241-4303; Fax: 256-413-3648 1700 West Grand Ave. Gadsden, AL 35901	Architectural columns and capitals for interior and exterior applications, commercial or residential. All columns are classically correct and durably constructed in a wide range of designs and materials.	Free Write in No. 9120	Hollow, Stavework	Wood, polymer composites (fiberglass)	46 in.	36 ft.	Wood, polymer composites, plaster composites	1009
HB&G 800-264-4HBG; Fax: 334-566-4629 www.hbgcolumns.com Troy, AL 36081	Low-maintenance porch products; Polyurethane moldings and entrances. PermaCast columns, PermaPosts, PermaPorch railing.	Free Write in No. 380	Hollow, Stavework	Wood, polymer composite	30 in.	30 ft.	Polymer composites	20%
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210	Hollow, Solid	Metal			Metal	100
Intl. Building Components — Ecclesiastical 716-592-2953; Fax: 716-592-3570 www.ecclesiastical.com Glenwood, NY 14069	Architectural columns, decorative capitals, & balustrade systems produced in fiberglass, load-bearing composites, preformed polymers, & wood. Also, ecclesiastical features: custom church doors, crosses, pews, pulpit furniture, art glass.	Free Write in No. 3109	Hollow, Stavework	Wood, polymer composite, aluminum, plaster/gypsum	48 in.	30 ft.	Wood, polymer composite, plaster, fiberglass, resin	409
JMS Wood Products 818-709-8674; Fax: 818-709-8683 8825 Shirley Ave. Northridge, CA 91324	Rope mouldings from 3/8-in. to 3-in. dia.; rope columns from 4-in. to 24-in. dia. Any lengths, any size, any species. Rope, fluted, and twist designs can be accommodated to furniture or stairs. Plinth blocks for door surrounds.	Free Write in No. 6320	Solid	Wood				100
Le Jardin Du Louvre 609-924-2743; Fax: 609-497-7369 4451 Route 27 Princeton, NJ 08540	Source of carved-stone landscape ornament, including urns, statuary, fountains, and pavers; custom work available.	Free Write in No. 2568		Stone			Stone	10%
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta.	Free Write in No. 5390	Solid	Stone			Stone	1009
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Producer of composite fiberglass molds for architectural precast concrete; columns, archways, planters, and more. Stock molds for over 100 balustrade designs. Custom molds available.	Free Write in No. 875					FRP molds	509
Manor Style, Ltd. 800-325-2188; Fax: 410-298-0848 6741 Whitestone Rd. Baltimore, MD 21207	Architectural columns, decorative capitals, & balustrade systems produced in fiberglass, load-bearing composites, preformed polymers, & wood. Stock column sizes: 8-, 10-, 12-in. dia.; special sizes, 14 to 48 in. up to 30 ft. high.	Free Write in No. 703	Hollow, Stavework	Wood, polymer composite, plaster/gypsum	48 in.	30 ft.	Wood, polymer composite, plaster, fiberglass, resin	409
Melton Classics, Inc. 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com Lawrenceville, GA 30042	Authentic classical & custom columns, round or square profiles, plain or fluted shafts, all sizes. Columns & capitals in fiberglass, poly/marble composite, synthetic stone, cast stone, GRC, GRG, or any wood species for paint or stain. Balustrades in a wide array of low-maintenance materials.	Free Write in No. 4100	Hollow	Wood, GRC, polymer composite, cast stone, fiberglass, synthetic stone	48 in.	36 ft.	Wood, polymer, plaster/gypsum, cast stone	100



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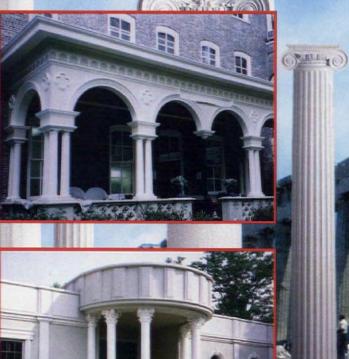


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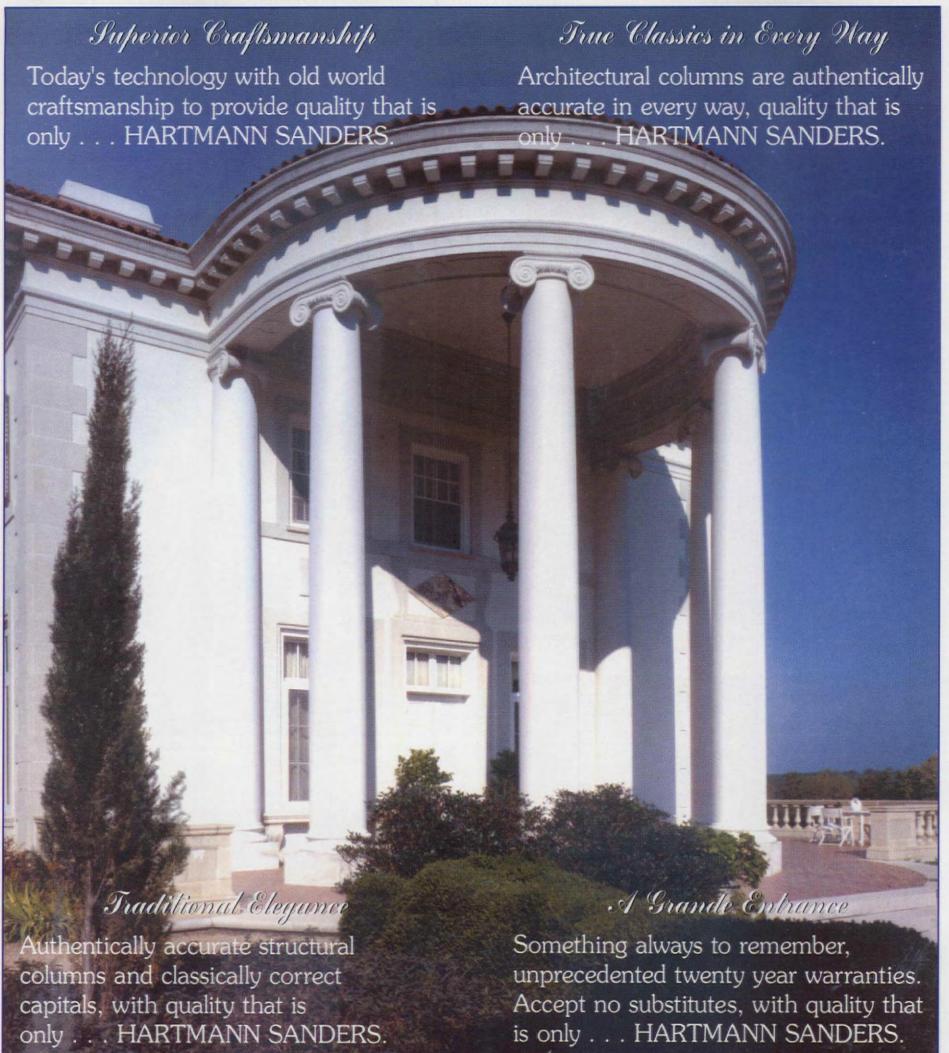


CTRADITIONAL BUILDING'S CSI# 06400 CSI# 06400

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COMPANY	SPECIALTY	Literature	Туре	COLU. Materials		Max. Ht.	CAPITALS Materials	Custon
Milestone Architectural Ornamentation 888-851-3381; Fax: 806-381-6996 www.milestoneltd.com Amarillo, TX 79107	Lightweight, highly durable, completely natural-looking cast-stone columns. Save funds in shipping and installation. Aged or new limestone, Florida coral stone, Madeira stone.	Free Write in No. 493		Stone			Stone	85%
Millwork Store 800-670-6455; Fax: 304-267-1504 www.millworkstore.com Martinsburg, WV 25401	PermaCast & Poly-classic FRP round & square columns, 8- to 48- in. dia. X 30 ft. Decorative poly capitals & balustrades; poly corbels. Custom FRP columns in non-taper with caps & bases. Wood columns 6- to 30-in. dia. X 30 ft.	Free Write in No. 8750	Round, Square	FRP, wood			Polymer	5%
Mohamad Wood Turning Co. 718-417-0025; Fax: 718-417-0021 28 Meadow St. Brooklyn, NY 11206	Specializes in custom wood spirals, turnings, balusters, and columns in all classical styles; load-bearing for interior or exterior use. Can furnish fluting, reeding, rope twists, and custom carving. Fractional columns available.	Free Write in No. 50	Solid	Wood				100%
New England Garden Ornaments 508-867-4474; Fax: 508-867-8409 www.negardenornaments.com North Brookfield, MA 01535	Importer of cast architectural ornament from three English companies: Chilstone, Haddonstone, and Yorkstone. Line includes steps and quoins, columns and pilasters, pier caps and copings, porticos, temples and pavilions, cornices.	Free Write in No. 2748		Stone			Stone	20%
New England Woodturners 360-388-1943; Fax: Same as phone www.newenglandwoodturners.com Old Saybrook, CT 06475	Maker & supplier of wood & fiberglass columns from 4 to 36 in., lengths to 30 ft., interior or exterior. Load-bearing, fluted or plain shaft, custom design or traditional orders.	Free Write in No. 3540	Solid, Hollow, Stavework	Wood	36 in.	30 ft.	Polymer composites, plaster	1009
Old World Stone Ltd. 800-281-9615; Fax: 716-842-3038 www.oldworldstone.com buffalo, NY 14202	Supplier of dimensional-cut limestone and sandstone for new and restoration projects. All work is custom made to suit individual projects, incl. columns, mantels, architectural ornament, signage, garden ornament.	Free Write in No. 2894	Solid	Stone	20 in.		Stone	1009
Polytek Development Corp. 510-559-8620; Fax: 610-559-8626 www.polytek.com aston, PA 18042	Manufacturer of liquid-rubber mold-making compounds, based on polyurethane, latex, and silicone, to produce flexible molds for concrete, plaster, and cast stone. All products cure at room temperature with easy-to-mix 1:1 systems.	Free Write in No. 6360		Mold-making compounds				N/A
Robinson Iron Corp. 800-824-2157; Fax: 256-329-8960 www.robinson-iron.com klexander City, AL 35011	Historic reproductions of classic Victorian lawn and garden ornament in bronze, aluminum, or iron. Custom casting available.	Free Write in No. 3240	Hollow	Iron/aluminum			Iron/aluminum	75%
Rossato Giovanni, srl/ Vicenza Stone Sculpture 011-39-0444-928499; Fax: 39-0444-928711 www.vicenzastone.com 36100 Vicenza, ITALY MVI 002134	Classic statues, fountains, fireplaces, consoles, columns, bench- seats, balls, pineapples, balustrades, vases, and more. Hand- carved in Vicenza stone. Column heights in multiples of 10 ft.	Free Write in No. 6110		Stone			Stone	30%
Royal Corinthian 388-265-8661; Fax: 630-876-3098 www.royalcorinthian.com Wheaton, IL 60189	Manufactures columns, balusters, and rails in synthetic polymer/stone materials.	Free Write in No. 76		Polymer/stone				25%
Schwerd Mfg. Co., A.F. 612-766-6322; Fax: 412-766-2262 6215 McClure Ave. Pittsburgh, PA 15212	Column specialist: Standard and custom wood columns and pilasters for paint or stain finishes; several styles of ornamental capitals available; can match existing columns. Aluminum bases available for even-diameter exterior columns.	Free Write in No. 1610	Hollow, Stavework	Wood, cast- aluminum bases	48 in.	35 ft.	Wood, plaster	90%
Sierra Architectural Cast Stone 800-333-9302; Fax: 513-665-2005 www.sierrastone.com Cincinnati, OH 45202	Dry-cast limestone and shell-stone products; also available in FRP and cast stone, balusters, cornices, columns, door and window surrounds, and more. Exterior aggregated paint complimenting cast stone and FRP.	Free Write in No. 236		Cast stone			Cast stone	609
Smooth-On, Inc. 800-762-0744; Fax: 610-252-6200 www.smooth-on.com Easton, PA 18042	Manufacturer of liquid urethane and silicone mold rubber compounds that can reproduce any original model. Rubber can be poured, brushed, or sprayed on at the job site and is ready the next day for production casting.	Free Write in No. 650		Mold rubber compounds				N/A
Somerset Door & Column Co. 814-445-9608; Fax: 814-443-1658 www.somersetcolumns.com Somerset, PA 15501	Colonial wood columns, custom or standard, up to 40-in. dia. and 40-ft. length; architectural solid-wood doors, hand assembled to spec.; newels, balusters, posts, casework and moldings.	Free; Write in No. 660 for Columns, No. 1095 for Doors		Wood	40 in.	40 ft.		55%
Spartan Architectural Columns 800-949-5450; Fax: 541-734-7453 www.architectural-columns.com Medford, OR 97501	Wood columns and ornamental capitals. In architectural series and stock residential patterns. Species include pine, redwood, oak, maple, & cherry. All synthetic materials available.	Free Write in No. 5650		Wood, GFRC, GRG, fiberglass, fire rated	T.		Wood, FRP, GFRC, fiberglass	50%
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630	Solid, Hollow	Cast stone		24 ft.	Cast stone	25%
Superior Moulding, Inc. 800-473-1415; Fax: 818-376-1314 5953 Sepulveda Blvd. Van Nuys, CA 91411	Array of standard and non-standard moldings and related finish materials in any size, style, shape, and species; short turnaround times.	Free Write in No. 138					Wood, castings	55%
l'alladega Foundry 256-362-0056; Fax: 256-362-6880 www.talladegafoundry.com l'alladega, AL 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No. 3148	Hollow	Cast iron, aluminum			Cast iron, aluminum	1009
Third Coast Imports 210-804-1239; Fax: 210-805-8308 www.thirdcoastimports.com San Antonio, TX 78209	Over 20 years' experience with natural quarry stone, specializing in fireplaces, columns, balustrades, pool coping, flooring, and other architectural items. Colors include white, pink, gray, brown, orange, black, and beige.	Free Write in No. 1281		Stone			Stone	709
Fowne House Restorations 718-326-4210; Fax: 718-326-1344 www.caststone.org/thr Maspeth, NY 11378	Custom fabricator of cast stone and GFRC to replicate ornamental terra cotta, limestone, & brownstone. Services include pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings, engineering.	Free Write in No. 545		Cast stone, GFRC			Cast stone, GFRC	859
Vintage Woodworks 903-356-2158; Fax: 903-356-3023 www.vintagewoodworks.com Quinlan, TX 75474	Extensive selection of wood porch parts, including turned posts, turned and sawn balusters, railings, brackets, corbels, custom-length spandrels, and more. 224-page Master Reference Catalog; 208-page Porch Design Book.	Free Write in No. 1061		Wood posts				209
Wausau Tile, Inc. 800-388-8728; Fax: 715-359-7456 www.wausautile.com Wausau, WI 54402	Manufacturer of precast-concrete pavers & terrazzo tile & matching accessories including column covers, treads, base & coping, more. Custom work a specialty. Also manufactures precast-concrete site furnishings.	Free Write in No. 4120		Precast concrete				209
Wilbur, Frederick — Woodcarver 804-263-4827; Fax: 804-263-5958 P.O. Box 425 Lovingston, VA 22949	Woodcarver specializes in traditional decorative carving for interiors and exteriors: furniture, mantels, moldings, friezes, column capitals, rosettes, and heraldry. Creates original designs and historically accurate reproductions.	Free Write in No. 1650		Wood			Wood	100
Wood Factory 936-825-7233; Fax: 936-825-1791 111 Railroad Street Navasota, TX 77868	Historically accurate millwork reproductions, interior & exterior: doors, screen doors, benches, stair parts, railings, porch parts, custom-turned column bases, newels, and more. Specialist in custom matching existing parts.	Free Write in No. 7120		Wood			Wood	909
Woodline Co. 562-436-3771; Fax: 562-436-8891 1521 W. 14th St. Long Beach, CA 90813	Architectural wood products: wood carvings and corbels, stair parts, finials, balusters, newels, rosettes, columns, capitals, and posts. All made in oak, poplar, and alder; special orders in other species available.	Free Write in No. 5240		Wood			Wood	100

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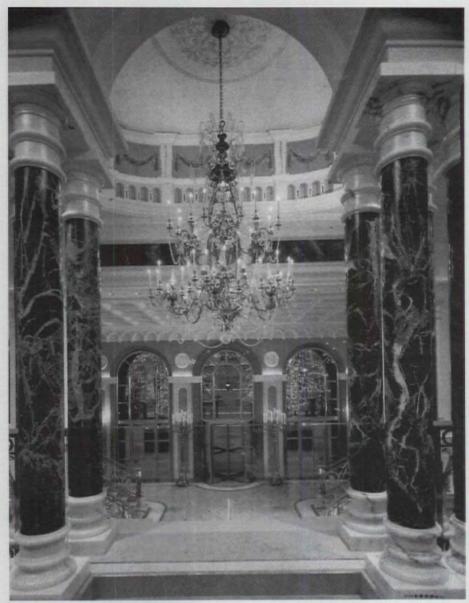
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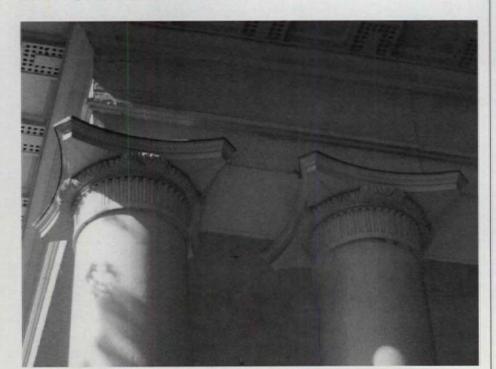
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These imposing columns in the Palace Hotel in New York City are the work of ARTISAN GROUP. Write in No. 895



A&M VICTORIAN DECORATIONS, INC., manufactured the columns for this gazebo from pre-cast concrete. Write in $No.\ 7470$



FREDERICK WILBUR hand-carved these elegant capitals for the Valentine Museum in Richmond, Va. $Write\ in\ No.\ 1650$



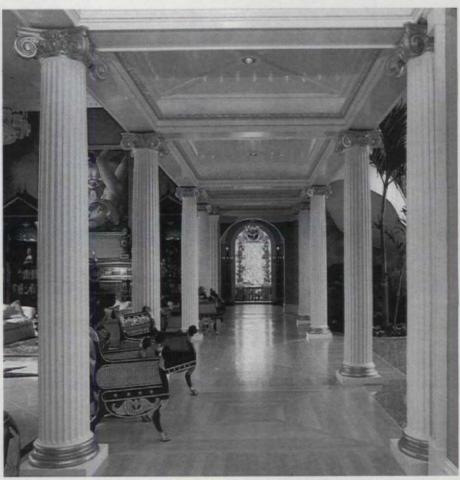
ARCHICAST restored and recast this capital for a project in Aiken, S.C. Call 901-525-8717 for information



A.F. SCHWERD MANUFACTURING CO. created these handsome wood columns for the Williston Academy Chapel in Easthamptom, Mass. Write in No. 1610



GOODWIN ASSOCIATES supplied these custom column covers in Forton MG for a library in Rochester, N.Y. Write in No. 806



The capitals and fluted columns adorning this interior in Alpharetta, Ga., were manufactured by DECORATORS SUPPLY CO. Write in No. 210



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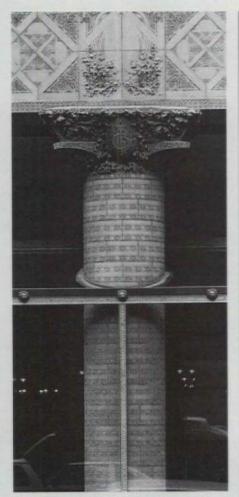
WRITE IN NUMBER 1580 FOR POLYSTONE & 180 FOR WOOD

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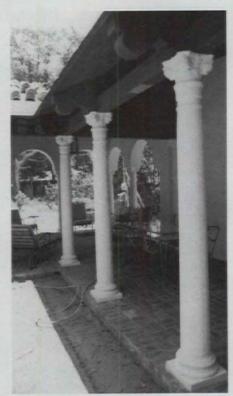
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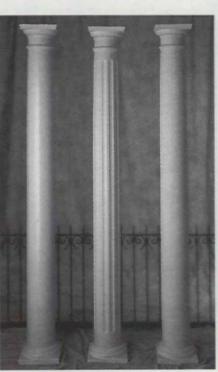
HB&G supplied 118 PermaCast, fiber-reinforced polymer columns for this building on Pine Island, N.C. Write in No. 580



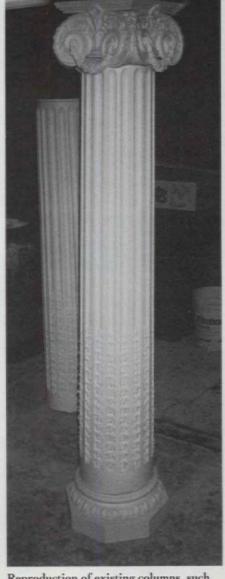
The restoration of these intricate capitals on the Guaranty Building in Buffalo, N.Y., was performed by BOSTON VALLEY TERRA COTTA, a specialist in new architectural terra cotta as well as restoration. Write in No. 160



MANDISH RESEARCH INTERNA-TIONAL offers composite fiberglass molds for columns and capitals in a variety of stock as well as custom designs. Write in No. 875



ROYAL CORINTHIAN's range of fiberglass-marble-composition columns in-cludes models with plain (left), fluted (center), and textured Stonetex (right) finishes. Write in No. 76



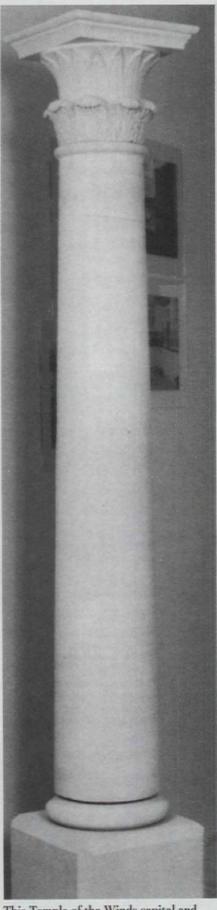
Reproduction of existing columns, such as this unusual design, is a speciality of AMERICAN WOOD COLUMN CORP. Write in No. 1308



CLASSIC INNOVATIONS' Polycast, load-bearing composite columns are available in fluted, squared, and, as pictured here, rounded configurations. Write in No. 907



These wood column bases were custom-turned by artisans at THE WOOD FACTORY. Write in No. 7120 $\,$



This Temple of the Winds capital and tapered column, #C-105, were cut from natural stone by DIXIE CUT STONE & MARBLE, INC. Write in No. 279



These impressive interior columns were hand-carved from limestone by the artisans at LIMESTONE CONCEPT, INC. Write in No. 5390



WRITE IN NO. 7470



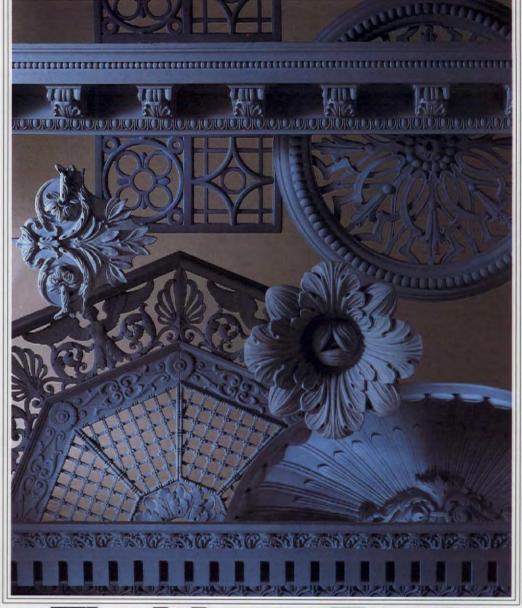
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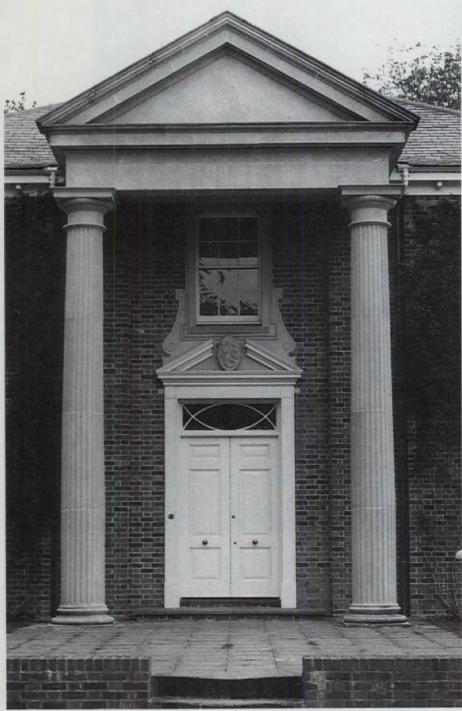
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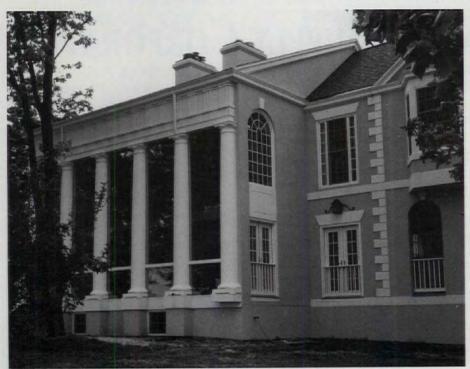


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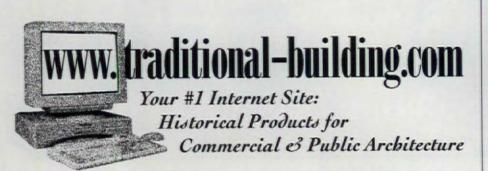
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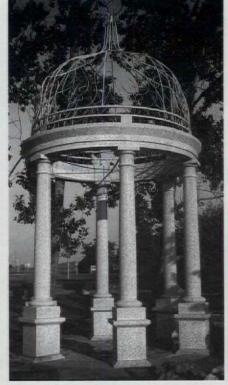


HADDONSTONE's reconstructed-limestone #M1 columns combine well with Doric capitals, pediment, sills and coping to create an impressive entrance. Write in No. 4020



In this unusual installation, MANOR STYLE's fiberglass half-columns were placed on either side of glass panels, creating a fully enclosed porchfront. Write in No. 703





This garden gazebo in Burlington, Ont., features columns from OLD WORLD STONE LTD. Write in No. 2894



WOODLINE's capitals, such as the #CP-104 pictured here, are available in oak, alder, and poplar. Write in No. 5240



STONE LEGENDS' range of columns and capitals includes this tapered column with a smooth finish and Scamozzi capital. Write in No. 8630



The Corinthian pilaster capital in this archway was molded in plaster, with a fine eye for detail, by CLASSIC MOULDINGS, INC. Write in No. 998



CAMMCO's columns, made of fiberglass-reinforced polymer, are available in a variety of standard sizes or, as pictured here, in custom lengths. Write in No. 2566



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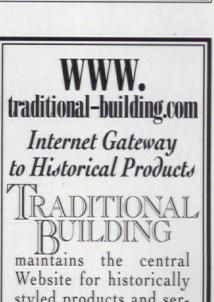
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WRITE IN NO. 3109

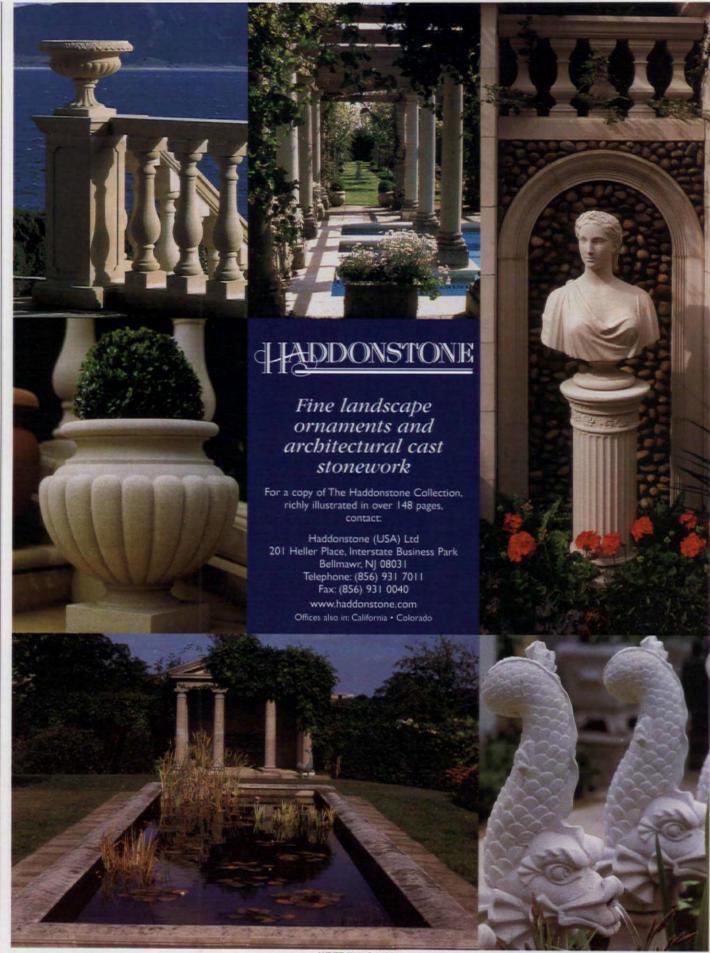




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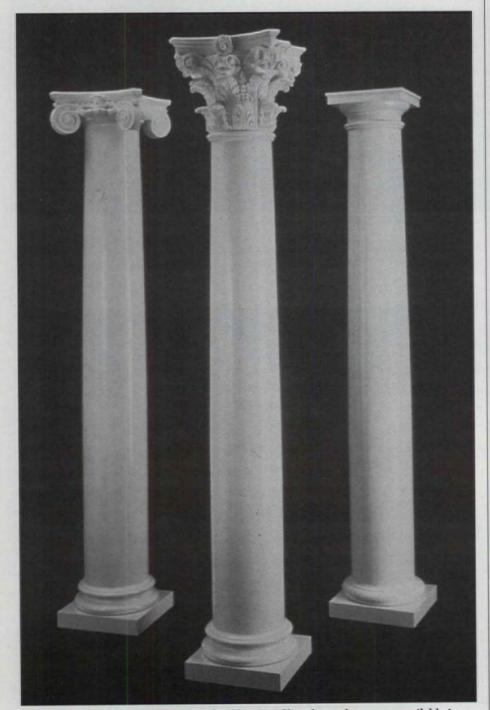
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SOMERSET DOOR AND COLUMN milled the columns for the loggia in this office complex. Write in $No.\,660$



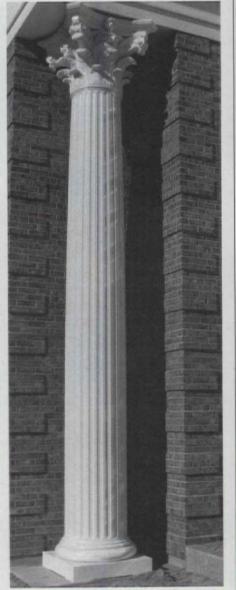
The massive columns supporting this porte cochere were manufactured by COLONIAL COLUMNS. Write in No. $\overline{35}$



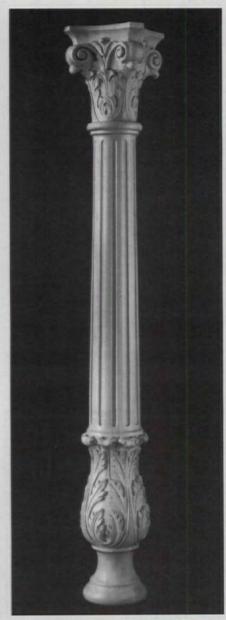
MELTON CLASSICS' DuraClassic load-bearing fiberglass columns are available in plain and fluted shafts and carry a lifetime warranty. Write in No. 4100



CANTERA ESPECIAL's line of architectural elements in carved Cantera and Adoquin sandstone and limestone includes this Pinon column and pedestal. Write in No. 31



FAGAN DESIGNS specializes in large columns, such as this fluted redwood model topped with a Corinthian capital. Write in No. 8210



This fluted column with stylized Corinthian capital and Acanthus bulb was carved in the workshops of RAYMOND ENKEBOLL DESIGNS and is available in a number of hardwoods. Write in No. 5770



This cast-stone roped column topped with a Scamozzi capital was custom made by MILESTONE ARCHITEC-TURAL ORNAMENTATION, INC., for an interior-design studio in Mobile, Ala. Write in No. 493

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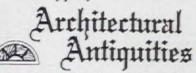
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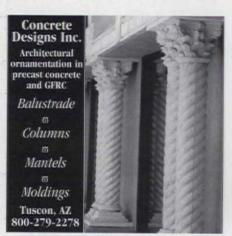
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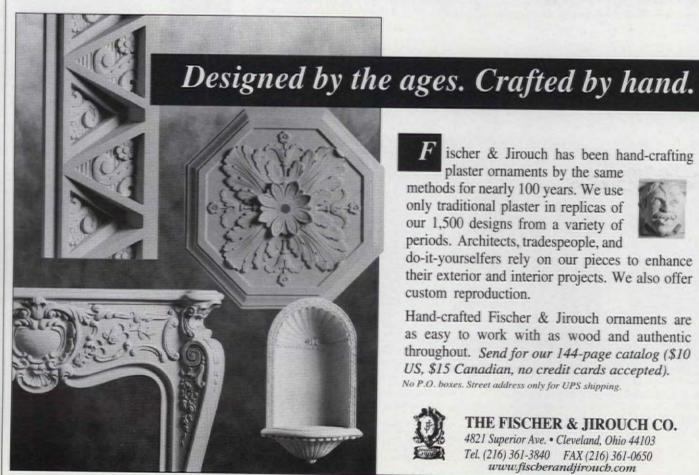
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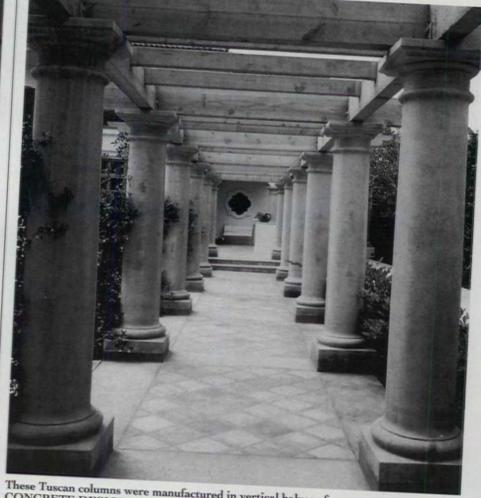
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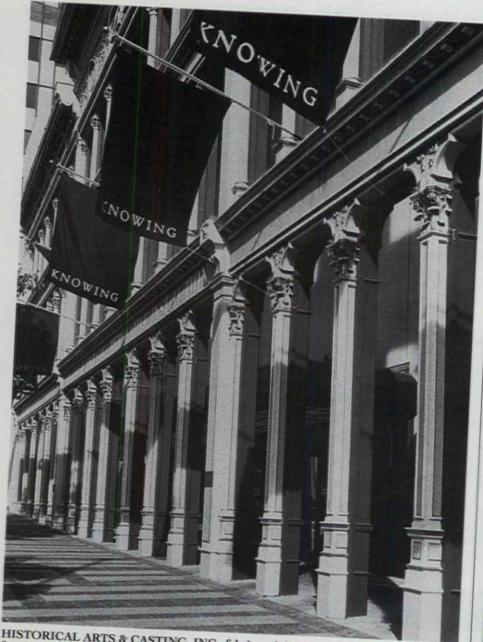
CAST DESIGNS & SUPPLY's #C8 fluted column and capital is hand-cast in gypsum reinforced with hemp fiber. Write in No. 451



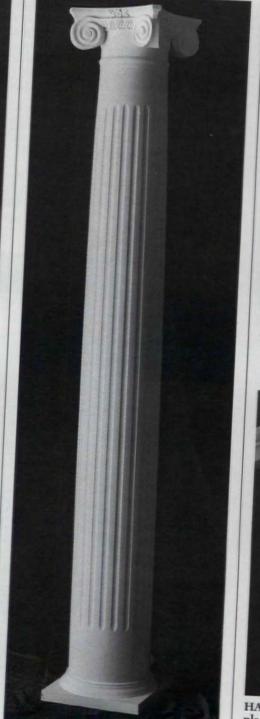
A fine example from FISCHER & JIROUCH's range of plaster capitals is this Temple of the Winds model. Write in No. 1960



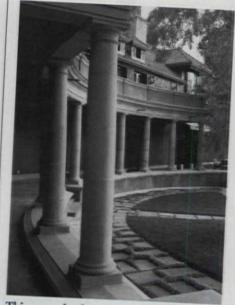
These Tuscan columns were manufactured in vertical halves of precast concrete by CONCRETE DESIGNS, INC., then bonded and installed. Write in No. 5190



HISTORICAL ARTS & CASTING, INC., fabricated this cast-iron and aluminum facade, including the ornamental columns, for a store in Salt Lake City, Utah. Write in



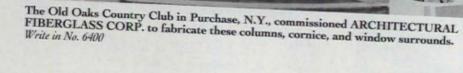
This fluted Marbleine column with decorative capital is one of hundreds of designs available from CHADSWORTH'S 1.800.COLUMNS. Write in No. 1580 for PolyStone, No. 180 for Wood



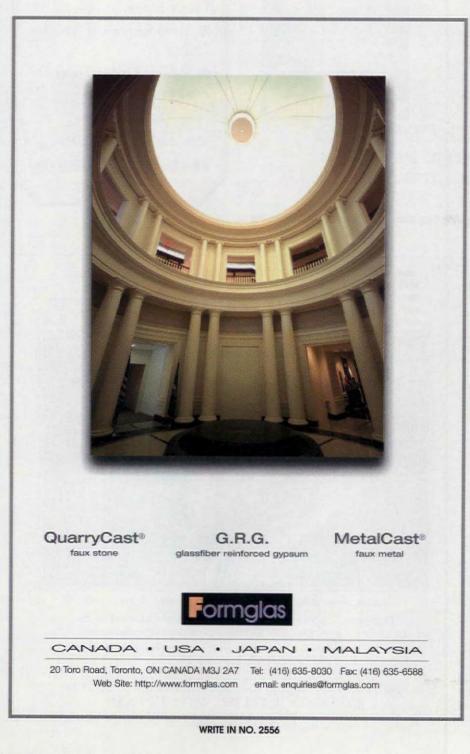
This curved colonnade features GFRC columns and capitals manufactured by ARCHITECTURAL FACADES UNLIMITED. Write in No. 1470

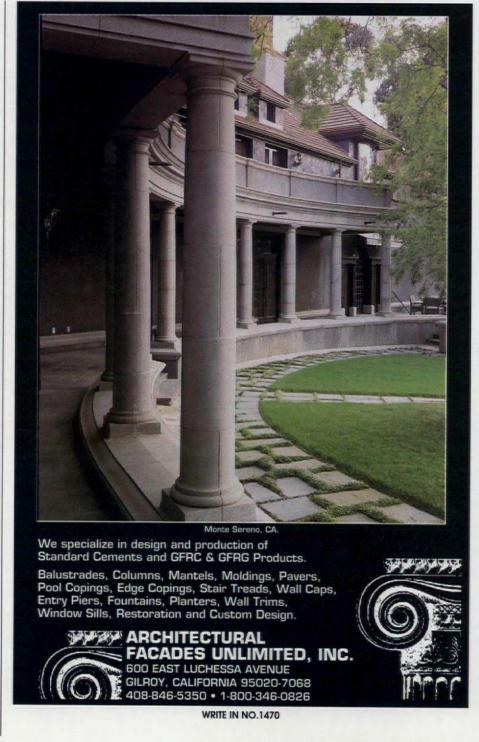


HARTMANN SANDERS' elegant Temple of the Winds capital is pictured here topping a fluted column. Write in No. 9120









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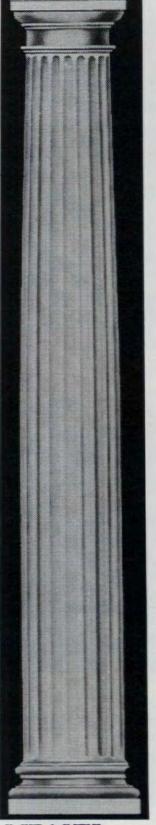


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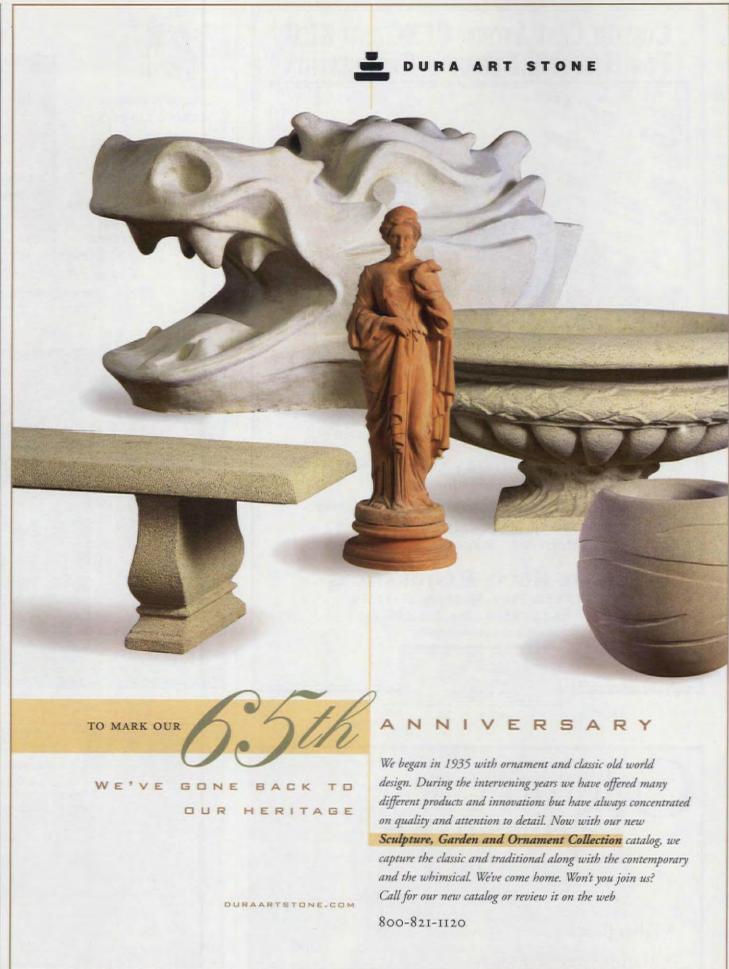
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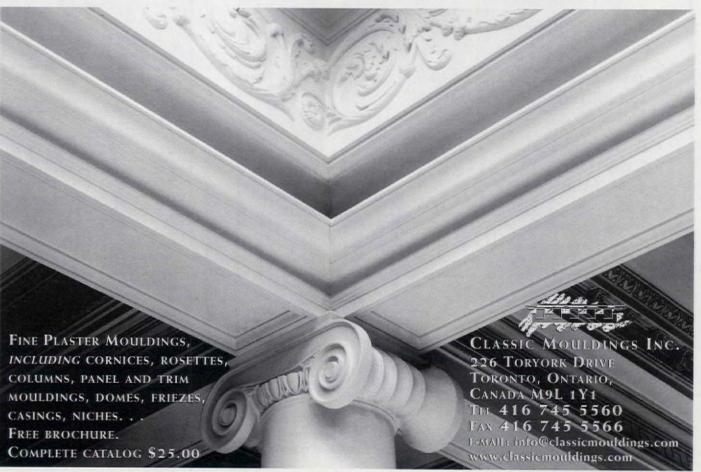
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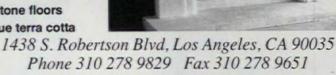


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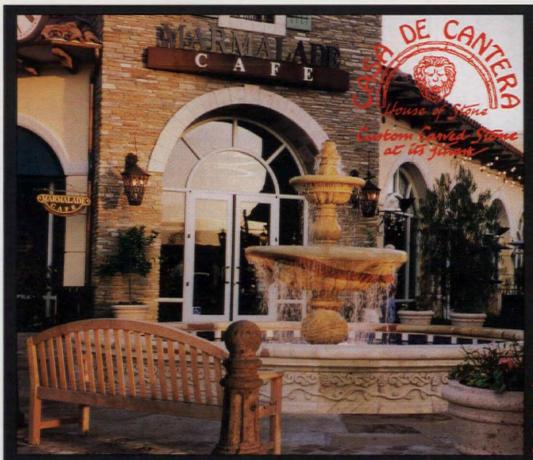
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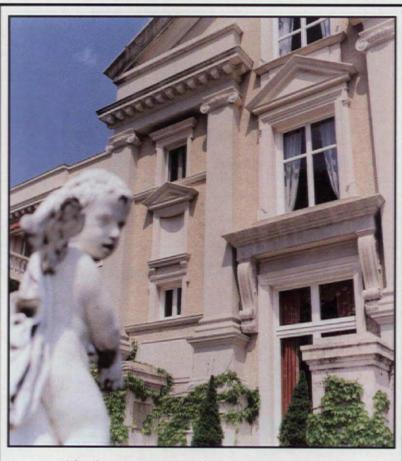


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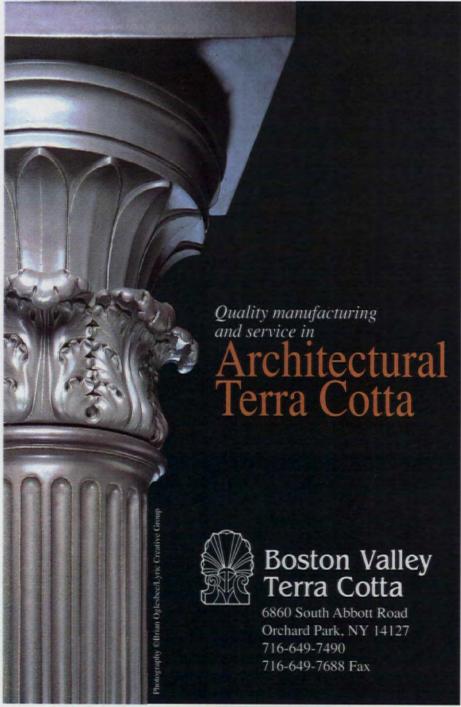
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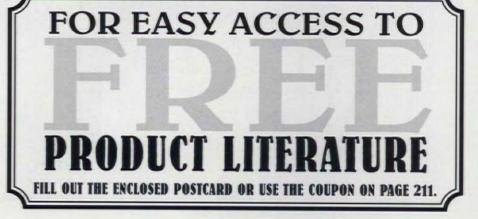
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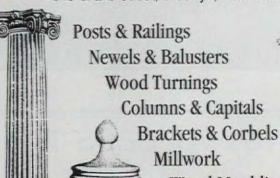
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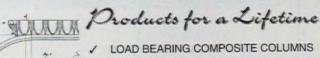
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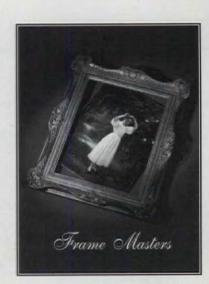
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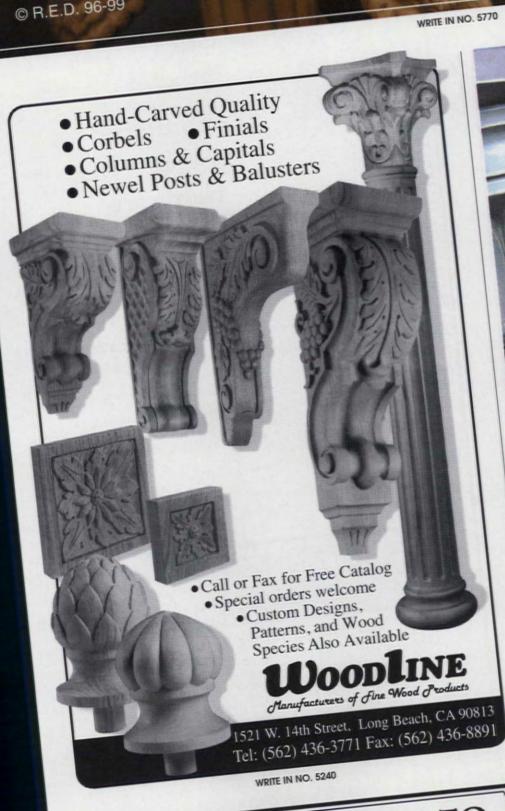
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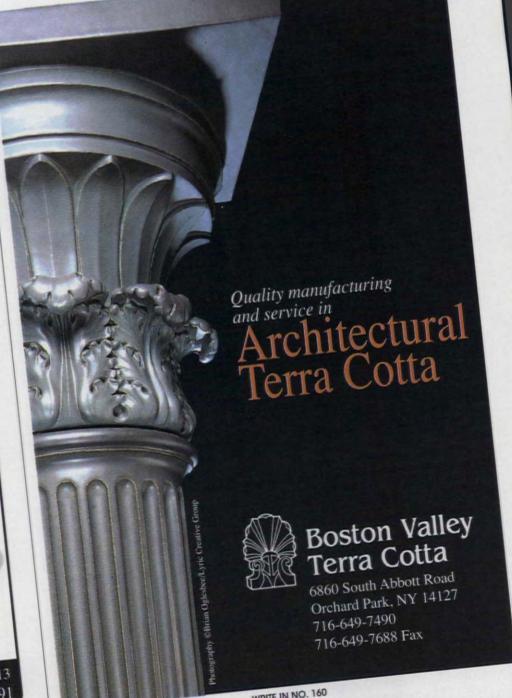
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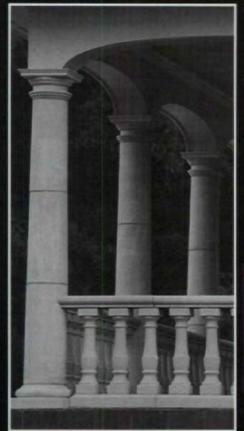
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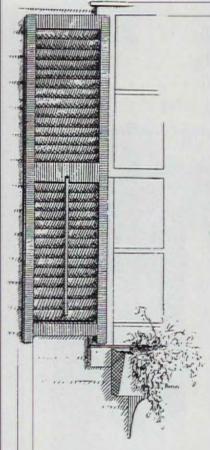
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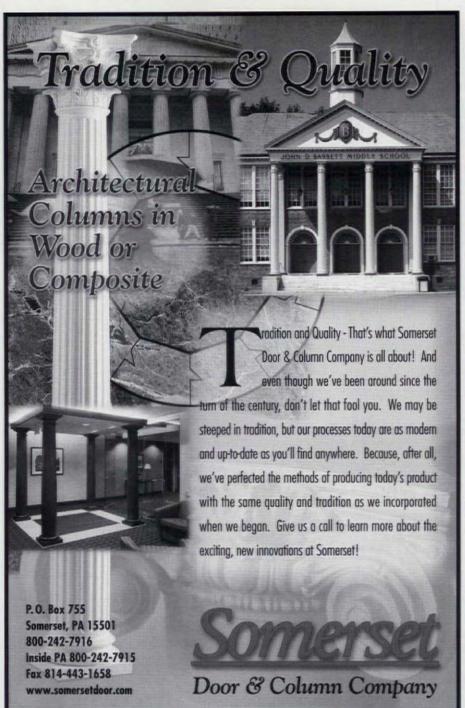
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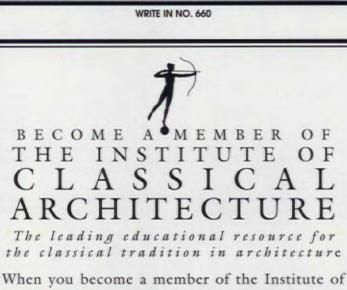
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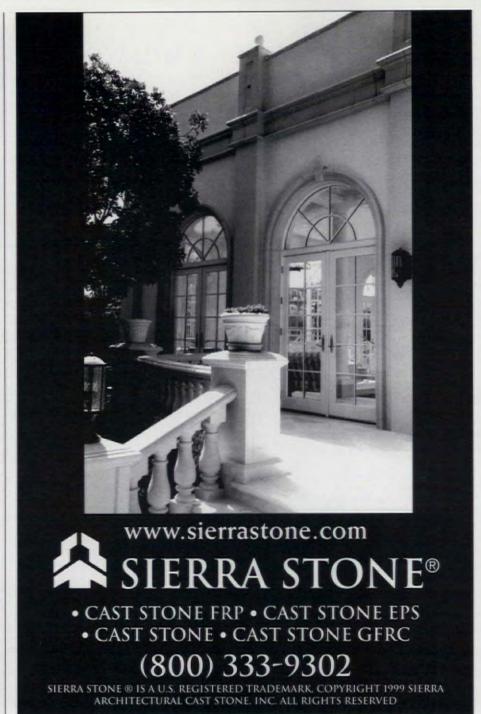
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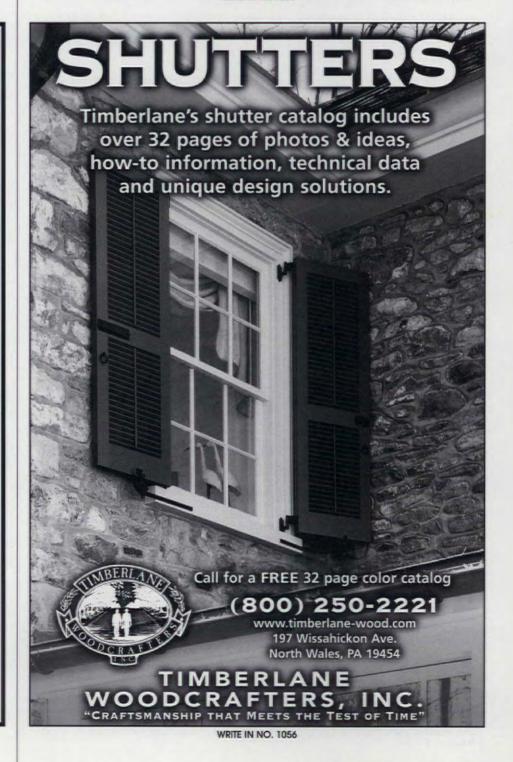
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Bufftech — Div. of CertainTeed 800-333-0569; Fax: 716-685-1172 www.bufftech.com Buffalo, NY 14225	Vinyl picket fences and other railing systems, all having several baluster/spindles styles available, and many with traditional finials and posts. Railing systems conform to BOCA building codes.	Free Write in No. 66		Lattice, fencing, railings	PVC
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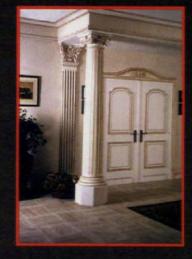
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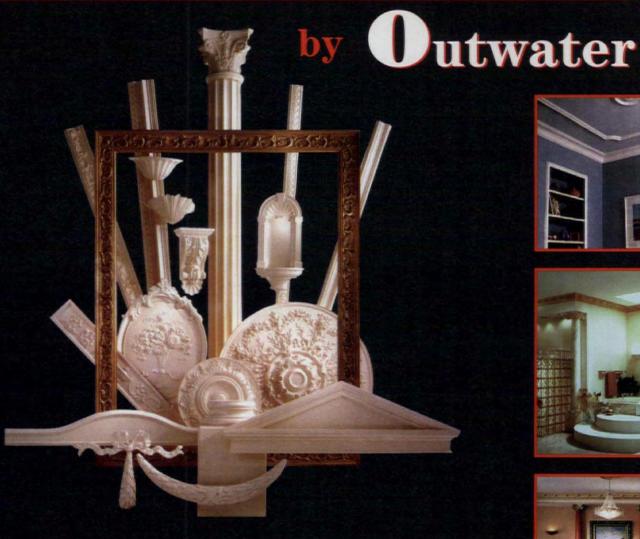












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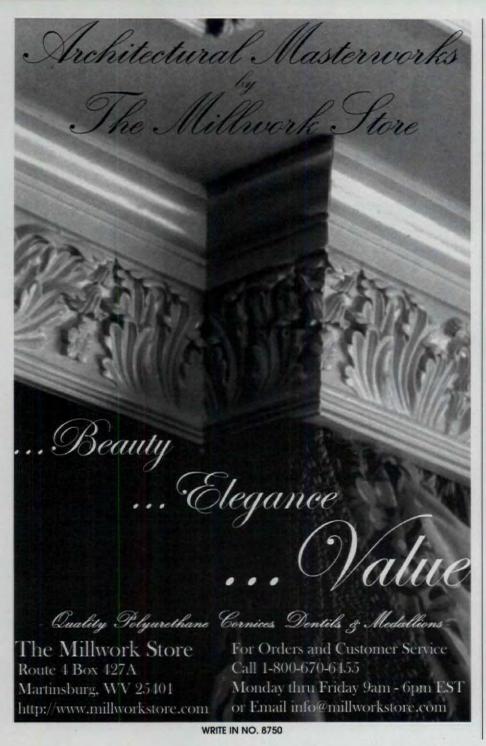
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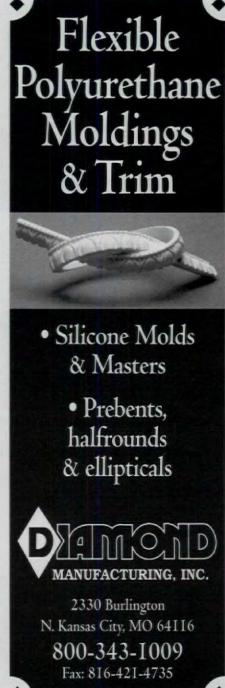


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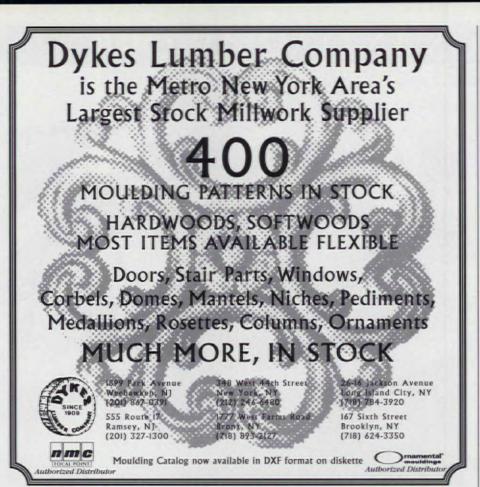
parts, railings, molding

Cornices, columns & capitals,

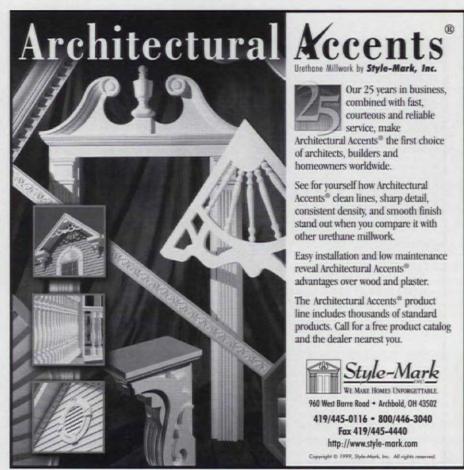
balustrades, molding, trim,

Fencing, lattice, arbors

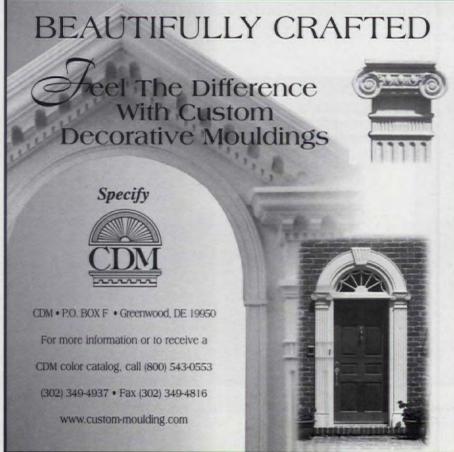
ornament



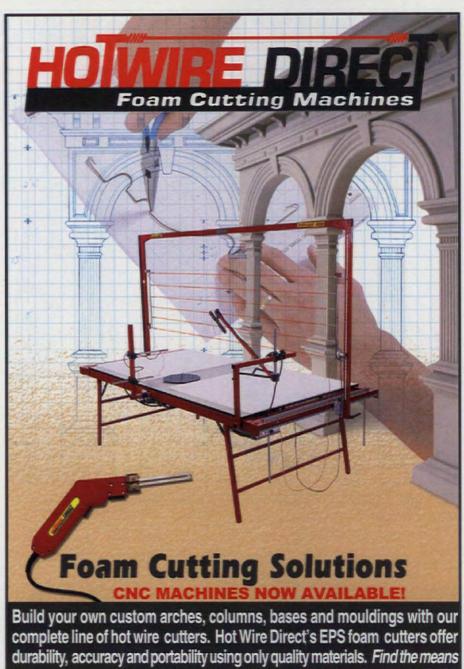
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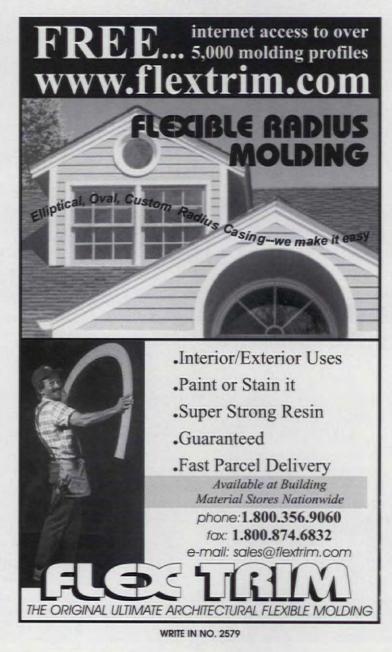


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For full contact information on these companies, consult the SourceList on pp. 46-48.



This classic niche is part of the enormous range of polymer moldings available from ARCHITECTURAL PRODUCTS BY OUTWATER. Write in No. 2557



This grape molding from CLASSIC ARCHITECTURAL SPECIALTIES comes in 8-x-12-in. stainable polyester resin tiles, for use around entryways. Write in No. 4200



This Florentine urethane trim molding, #MLD600 from STYLE-MARK, INC., is available in 8-ft. or 10-ft. lengths. Write in No. 553



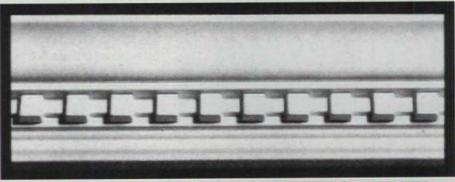
SNELLING'S THERMO-VAC manufactures an extensive line of decorative polymer ceiling tiles, which includes the Evangeline model pictured here. Write in No. 8450



DiamondFlex from DIAMOND MAN-UFACTURING, INC., is a remarkably flexible polyurethane molding which can be fitted to curves or custom-bent to virtually any radius. Write in No. 583



Moldings, trim, medallions, and niches are just some of the high-density-polyurethane ornament available from CHEMCREST ARCHITECTURAL PRODUCTS. Write in No. 2764



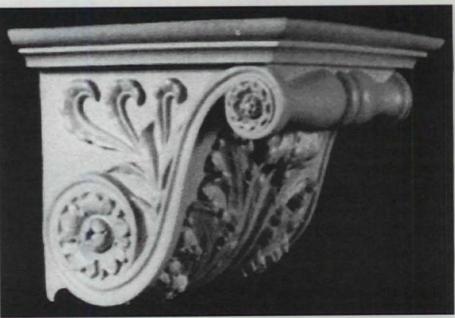
This polyurethane dentil crown molding is one of many available from THE MILLWORK STORE. Write in No.~8750



These classic corbels and the Georgian plaque in polyurethane, #93200 and #97010 from DYKES LUMBER CO., add enriching detail to this room setting. Write in No. 3100



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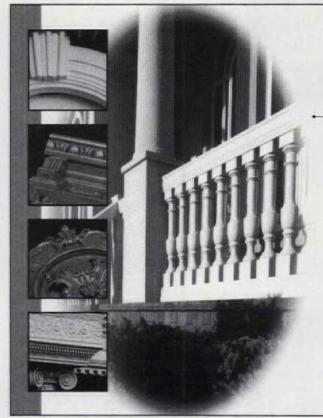
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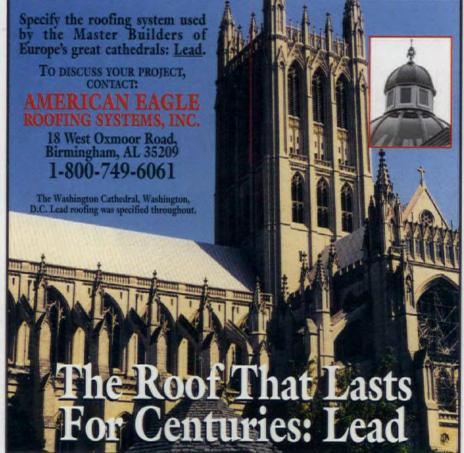
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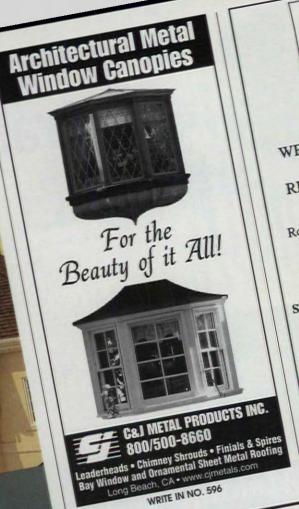
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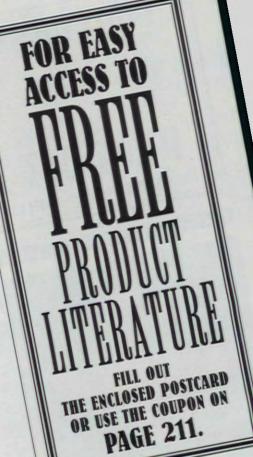
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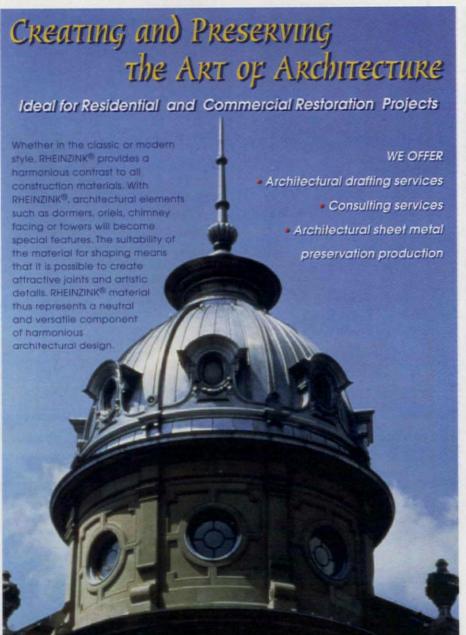
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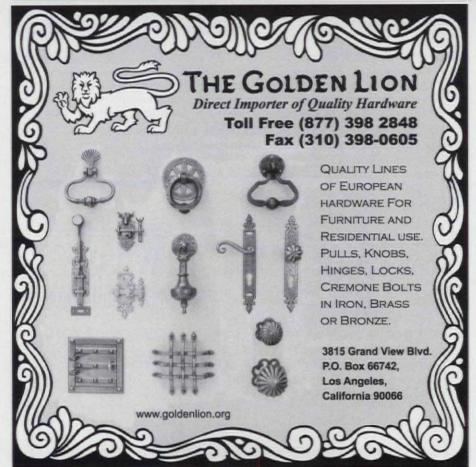
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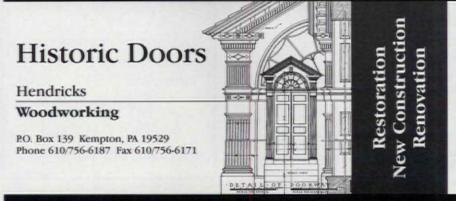
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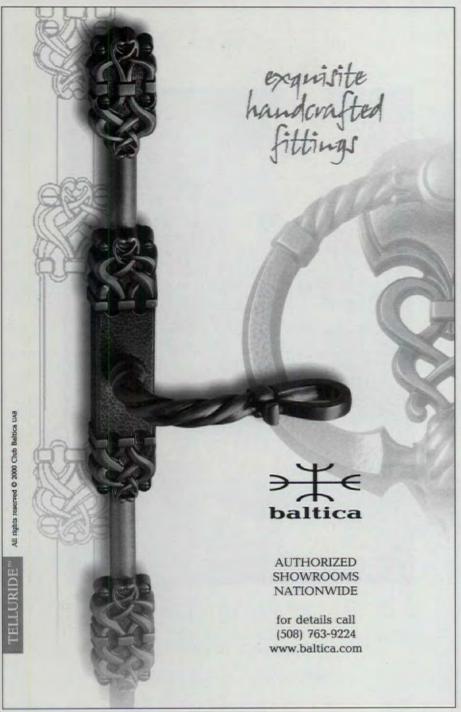
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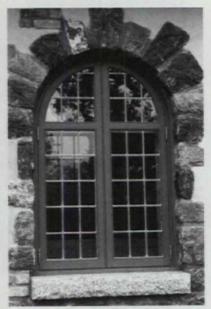


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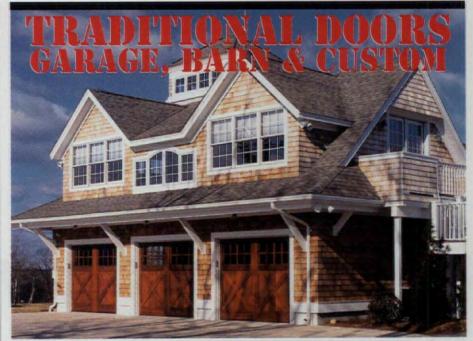


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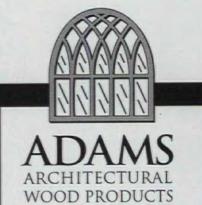


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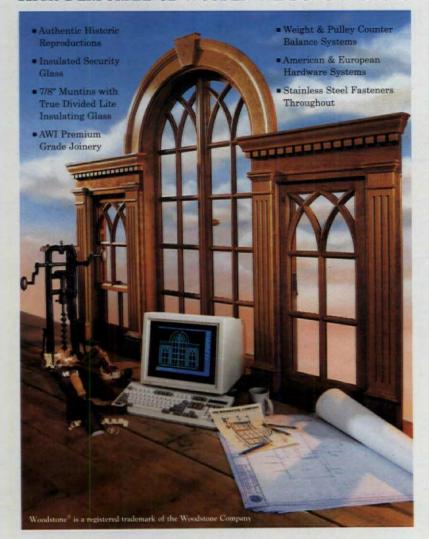


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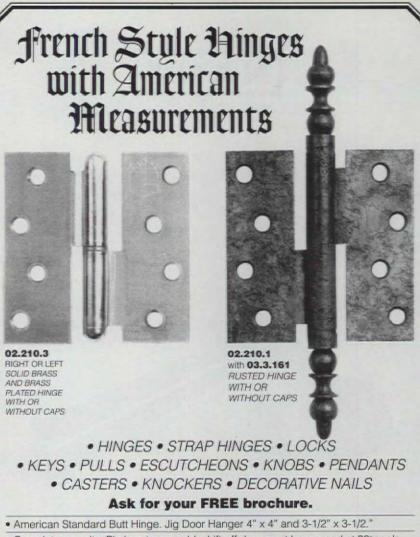
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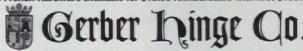
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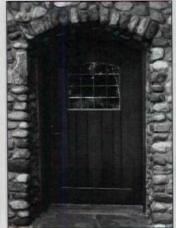


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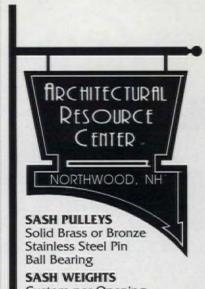
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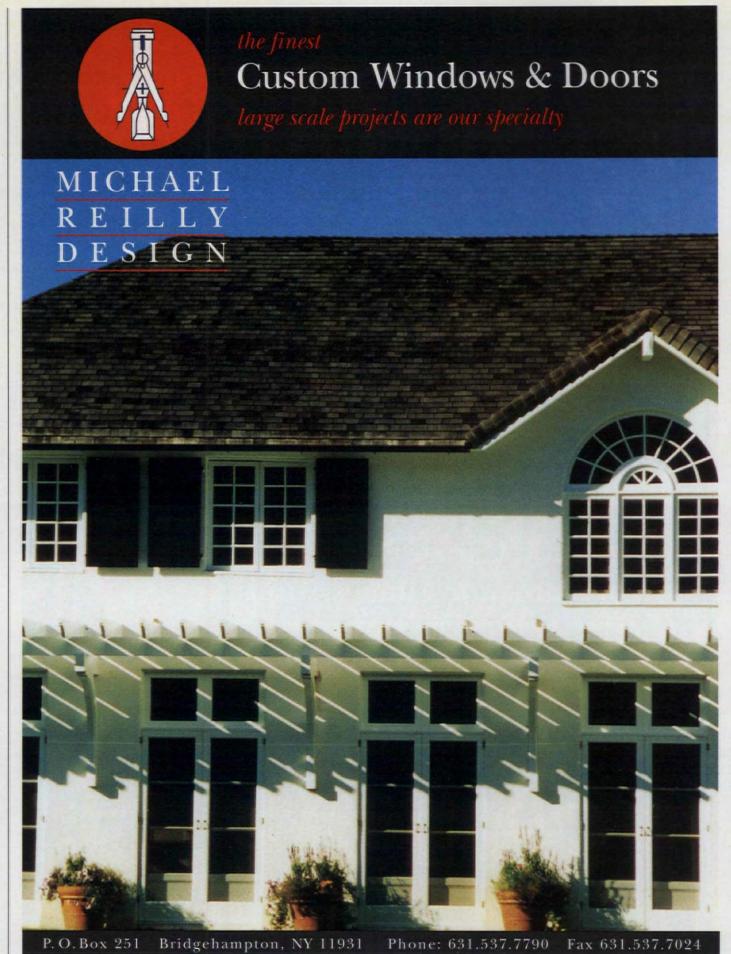
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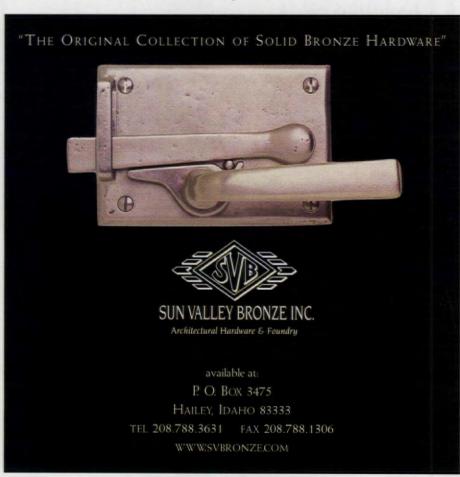
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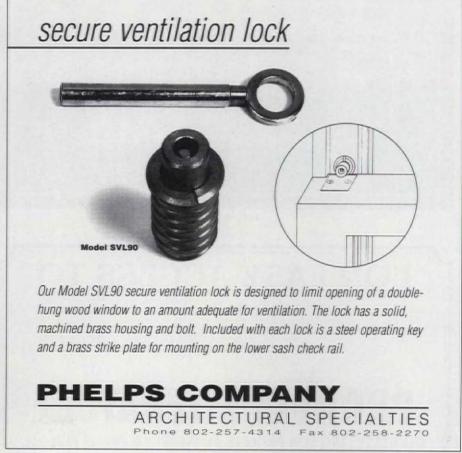
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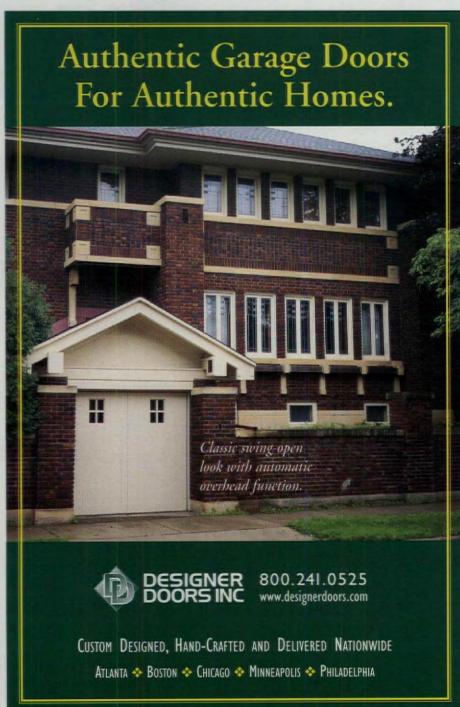
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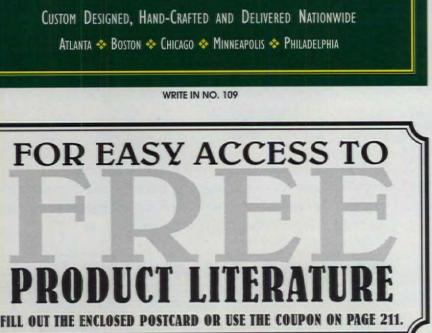


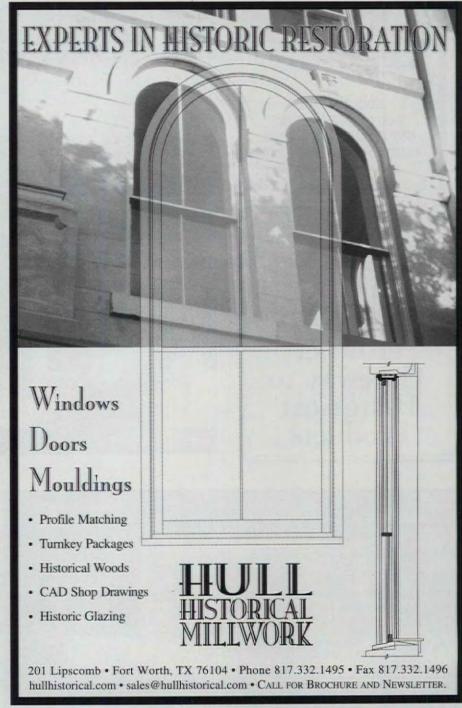


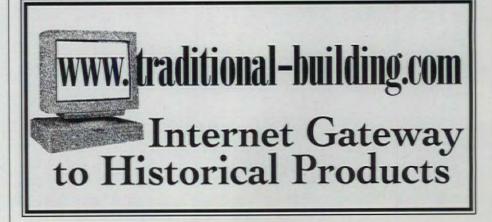


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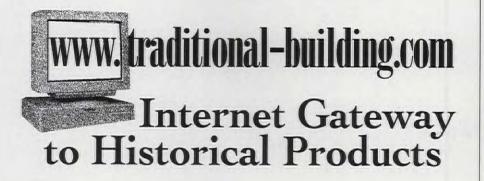
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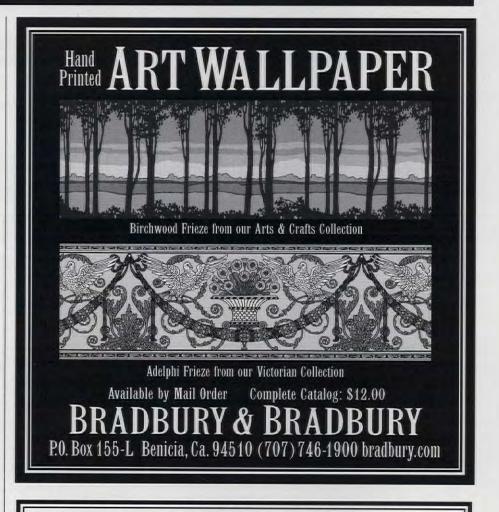
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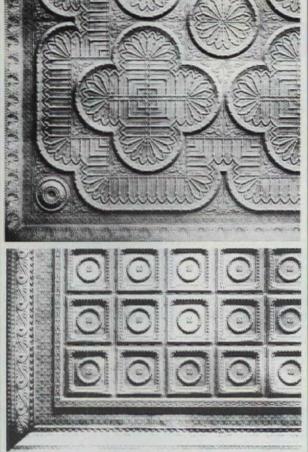
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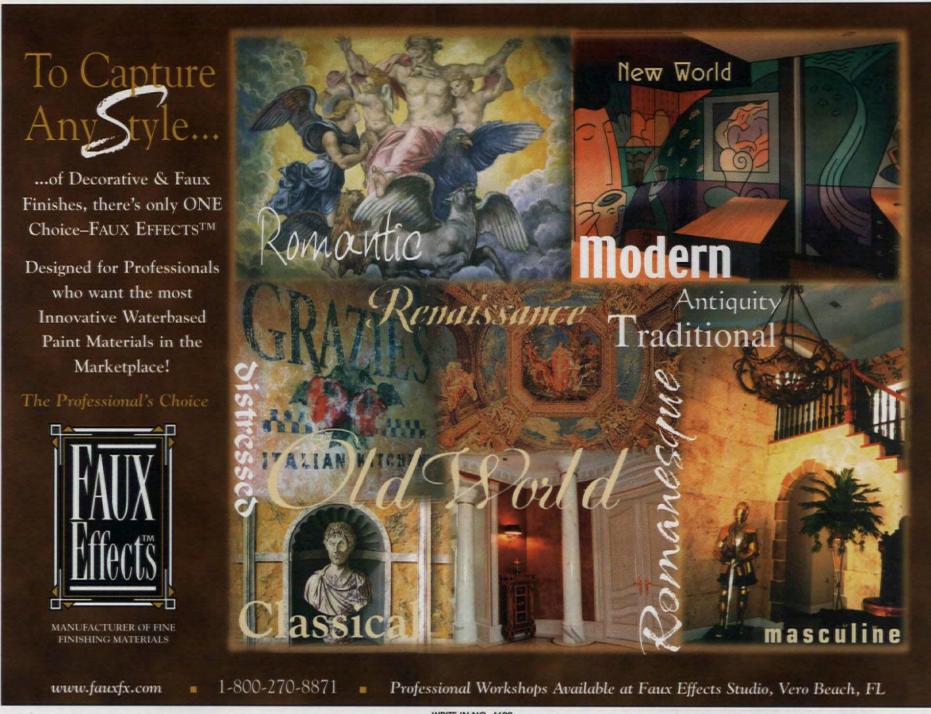
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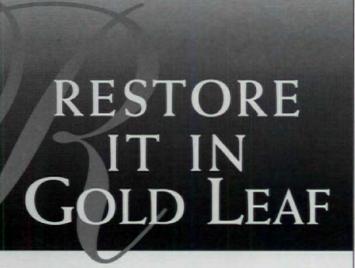
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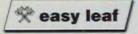
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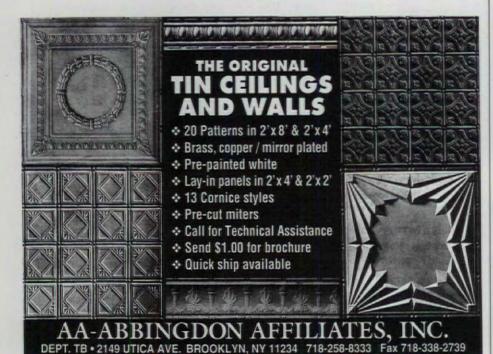




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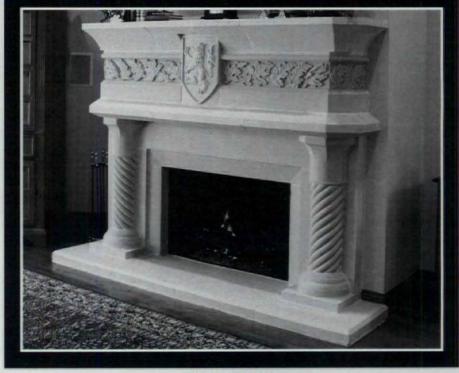
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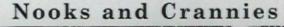
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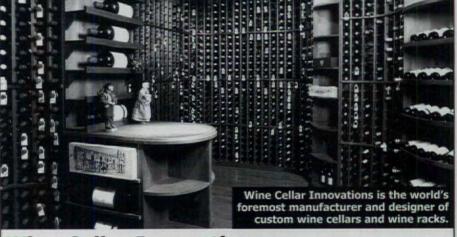
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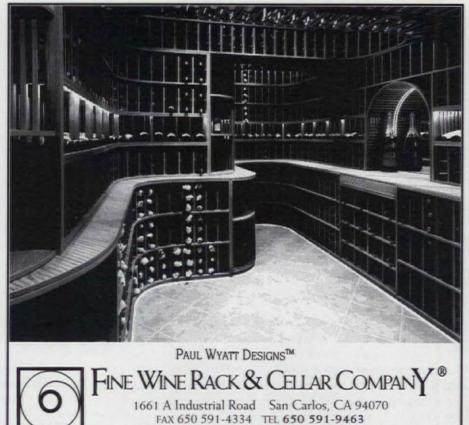
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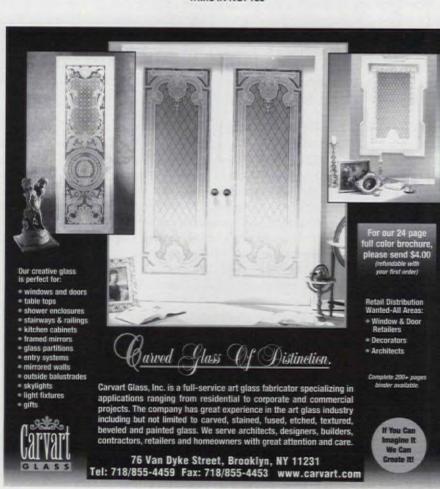


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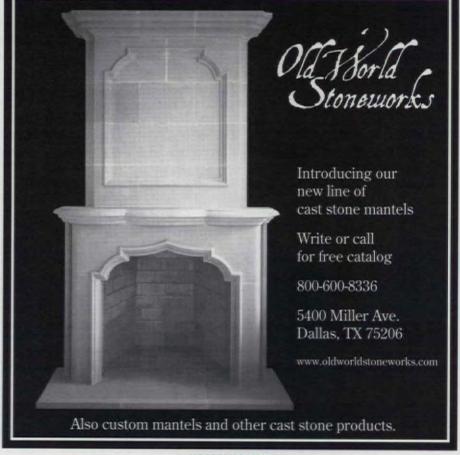


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EPOXIES FOR CONSTRUCTION AND REPAIRS

Epoxies have won a well-recognized role in the restoration field for their ability to reconstitute rotted wood. In the market survey below, an expert in a epoxy wood consolidation reviews some of the other applications of epoxies in the construction and preservation market.

by John Leeke, Preservation Consultant

Then I was a kid in the 1960s, five-minute epoxy adhesive had just appeared on the consumer market. We amused ourselves by gluing a half-dollar to the sidewalk out in front of the bank. It developed a bond in just minutes that consternated the bank patrons who fell for our practical joke and entertained us for hours. But what really caught our interest was at the end of the day when the janitor came out to remove the 50-cent piece. After a few unsuccessful attempts he returned with a hammer and cold-chisel. After a disdainful glance at us he popped the coin off the pavement with one quick blow, pocketed his prize with a grin and returned to his duties inside the bank. That was the end of our fun, or so we thought as we sauntered over to look at the spot on the sidewalk. The janitor's handiwork had left a 1-in. deep divot in the concrete; the adhesive bond hadn't broken, the concrete had! We were astonished. How could this epoxy stuff be stronger than bone-crushing car-killing concrete? We were amazed.

By the 1970s I was more gainfully occupied at that same bank, repairing a stone column base where a corner of the plinth had broken off. Recalling my earlier experience with concrete and epoxy, I glued the corner back on with five-minute epoxy. It looked great, but a few years later I got a callback when the plinth corner fell off again. Now it was my turn to be consternated by the amazing epoxy. Why had this super-strong epoxy failed me? On another project I was preserving some wooden column bases with an epoxy consolidant that cured soft and flexible. How could two materials both be called "epoxy," yet be so different? In tracking down the answers to these questions over the next several years, I learned that epoxy is a very adaptable and versatile material. In fact, it is not really a single material, but rather a large family of chemically related "cousins."

There has been a lot of coverage the past few years on epoxy-wood-repair methods. Considering the limited space here, I will show you a few examples of how epoxies can be used with *other* materials to preserve historic buildings.

Epoxy Basics

Epoxies are a type of plastic made up of two liquids, an epoxy resin and a curing agent called a catalyst or hardener. When the resin and hardener are mixed together, a chemical reaction takes place and they harden into a solid mass. When the two components are mixed, single molecules (monomers) of the epoxy resin and the curing agent combine to form chains of molecules (polymers). As the mixture "cures," the chains grow longer, the solution gels and then hardens into a solid polymer. The characteristics of hardened epoxies (such as whether they are firm or flexible, or resistant to heat or chemicals) depend on which epoxy monomers, curing agents, solvents, and fillers are added. Many epoxy systems also contain additives, such as plasticizers, to make them more flexible; organic solvents to make them more spreadable; and fillers, such as sand, to add bulk and reduce costs. Pigments are added for color, and fibers such as fiberglass or chopped cotton change strength characteristics.

Epoxy materials are very adaptable. The chemists who design and formulate epoxies can give them a wide range of pre-cure and post-cure characteristics. The cured epoxy can be nearly as hard and brittle as glass or almost as soft and flexible as rubber bands. This adaptability makes epoxies well suited for matching the physical characteristics of traditional building materials and systems that need repairs. Epoxies bond exceptionally well to a wide range of materials, making them effective adhesives.

Even the rate of cure can be adjusted to meet very specific application needs. ConServ's Flexible Consolidant 100 product takes hours to gel, which helps it penetrate deeply into porous wood. Edison Coating's Flashepoxy 580 products are fast-curing for floor coating and repair situations where the area must be put back into service as soon as possible. This is a range of products formulated to permit the selection of the desired rate of cure that can match the anticipated temperature and conditions during application, which can range from sub-zero winter to hot summer weather.

Structural Composites

Good bonding means epoxies are useful for making composite materials. By closely integrating the epoxy resin with other materials such as reinforcement rods or FiberglasT cloth, the resulting composite material can have exceptional strength characteristics.

Wingspread is a Frank Lloyd Wright building near Racine, Wisc., and is on the National Register of Historic Buildings (NRHB). It was built in 1938 and is now used as a conference center. One of the wings was remodeled in the 1940s with the removal of several interior walls. These changes shifted the loads in the gable-roof system. By 1994 the roof ridge was sagging, the wall plate beams were bowing out, and the owner was worried about collapse. The usual repair method would be to simply tie the wall plates together with added ceiling joists. This could not be done because it would disrupt too much of the original appearance of the interior and would not meet the NRHB guidelines. John McDonald, Senior Structural Engineer for Robert Silman Associates, analyzed the situation and realized they could stabilize the roof from the exterior. Adding a rigid shell on top of the roof sheathing would stiffen the two flat planes of the roof enough to prevent ridge and wall plates from moving. The shell would be made of a resin and fiber composite applied to the roof sheathing and built up to the needed thickness right in place — much like FiberglasT boats are built up on a form layer-by-layer.

The engineer calculated the needed strength for the membrane, but knew that FiberglasT would not develop the needed stiffness. Working with technicians at Gougeon Brothers, an epoxy-materials supplier, they developed the design for a thick plate of FiberglasT cloth and high-strength carbon fiber that would be bound together with Gougeon's PRO-SET Epoxy. This epoxy material has an extended working time and low viscosity for wetting the reinforcing fabrics. They also developed a method to attach the sheathing to the rafter by setting large wood screws into epoxy-filled holes in the rafter edges. Both the membrane and wood-screw methods would be tested in Gougeon's lab as part of the engineering and design phase.

The membrane was applied by Palmer Johnson, Inc., a custom boat builder with a crew who had plenty of experience applying resin/fiber materials. After application the whole roof was heated to 110 degrees for a full day to complete the cure of the epoxy resin. This project illustrates how important it is to assemble a knowledgeable team to design and implement unusual epoxy repairs.

Slab-Glass Windows

Slab glass is a glazing method developed in Europe in the building of churches. Colored pieces of very thick glass were set into stone or clay, forming panels up to an inch thick and 16 ft. square with translucent designs. This technique was revised in the mid-20th century for use with concrete. By the late 1950s Blenko Glass Company was pioneering Dalle de Verre in this country when the process was brought to the United States from France. The Blenko artisans had already mastered the production of colored glass and turned to epoxies as a more effective matrix material than concrete.

The new epoxy resins were used because of their unique bonding ability and because the thermal-expansion characteristics could be tailored to work well with glass. Blenko Glass Company is the exclusive distributor of Key Slab Glass Epoxy developed by the Key Resin Company. This low toxicity, two-part formula is specifically designed for use with slab glass. The United States Air Force Academy Cathedral in Colorado Springs, Colo., contains over 25,000 slabs of Blenko's Dalle de Verre.

Terra-Cotta Repairs

Terra cotta is clay fired into decorative building elements, which sometimes has color-glazed surfaces. The elements are often attached from their backs to the inner structural wall with steel rods and clips. When moisture migrates into the wall the steel can corrode and expand, bursting the terra-cotta units.

Scott Nacheman, a Senior Architectural Designer and Engineer at LZA Technology in Chicago, says that a common repair procedure is to remove a fractured terra-cotta unit to an offsite workshop where it will be epoxied back together, utilizing clamps to ensure proper alignment and bond, and then reinstalled using traditional means and materials.

Epoxies do not work by magic and their limitations must be recognized. Nacheman cautions that epoxies are very sensitive to high temperatures, i.e., those caused by fire or excessive environmental conditions, and therefore should not be used as a primary repair for any structural elements.

Drew Diaz, a masonry tradesman on Long Island, N.Y., uses epoxy with various dry tints to patch holes in terra cotta and tile floors. For long-lasting repairs the epoxy resins must match the terra cotta's expansion and contraction characteristics as well as surface "wearability." The epoxy's color can be premixed by the manufacturer and adjusted onsite with the addition of dry pigments to match color variations.

John Leeke is a preservation consultant who helps owners, architects, contractors, and tradespeople understand and maintain their older and historic buildings. You can contact him directly at: 26 Higgins St., Portland, ME 04103, 207-773-2306, johnleeke@HistoricHomeWorks.com or www.HistoricHome-



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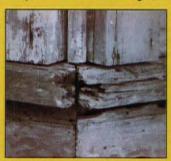
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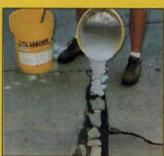






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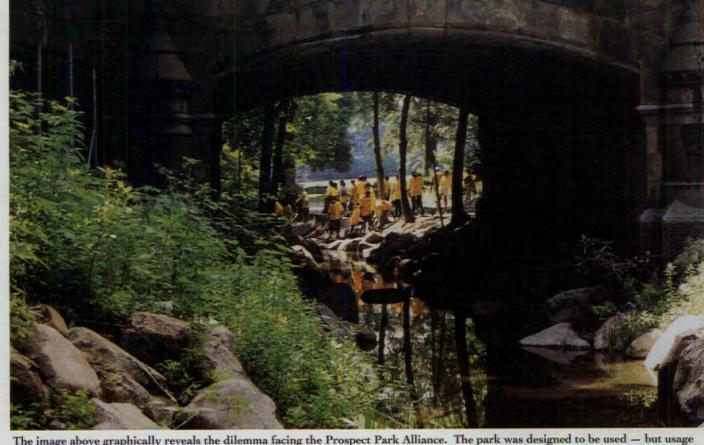
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the pond was deepened, and using the photographs, restored to its original borders and cleared to restore the intended views. Once the structure of the pond was reestablished it could be replenished with appropriate flora and fauna, and now turtles, fish, water-birds, frogs, and other creatures either make this place their home or use it in their yearly migrations. Native plants complete the picture and help both sustain the structure of the pond and its surroundings as well as feed and provide homes for the wildlife.

The stream which issues from this large pond by the long meadow likewise needed to be dredged and the boulders re-situated. Using plan drawings the team would always know where in the park they were and consequently, the original dimensions of any given body of water, but out there, on site with work in



The image above graphically reveals the dilemma facing the Prospect Park Alliance. The park was designed to be used — but usage today is of a nature and intensity unanticipated by Olmsted and Vaux, and includes group activities, sports, and dog running, all of which make upkeep of the park problematic. This summer-camp group stands at the portion of the water works where restoration has stopped — the last portions restored are visible on this side of the bridge. With sufficient funds, a lily pool that once adorned the area just beyond the children in the above image, will soon be rebuilt, becoming as it once was, a primary focal point from the Neathermead above it (to the right in this picture).

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hand, only the photographs and a comprehension of the thought of Olmsted and Vaux could reveal precisely what they were to re-create. Nothing illustrates this so well as that photo showing the tops of two courses of boulders, beneath which was a granite vaulted bridge. (See photos above.) Because there were no elevation maps and the entire area had been sedimented over, there was no way of knowing that a fall and bridge had been at this place in the water course. An old photo proved that these had existed and a lightbulb in the brain of a devoted Alliance employee discovered where.

For the full length of the stream, in fact (as far as funds have allowed), images have been used to locate and rebuild important details of the water works, and the results are wonderful. But the work is tedious and slow-going. In many cases, mounds of soil must first be carefully scraped away to find the original boulders and stream or pond edge without damaging the clay liner beneath. In some cases additional materials (to date nearly 2,000 cubic yards of boulders, for example) have to be brought in and specifically placed, boulder by boulder, while referring constantly back to a picture or notes in the re-

In some cases, where a weir exists, or a waterfall, little needed to be

**Alliance, and to ber en
their extensive coopera

done to the watercourse itself, because these were so well designed and well built that the original stones are still in place. (One waterfall, for example, has stones strategically placed so they reflect sound to a nearby bridge and viewing area.) But everywhere the plantings have been horribly damaged, and replanting is an ongoing and costly part of the water works reconstruction. And an important part, too.

The Relation Of Plants To The Water Works

The wrong sorts of plants become invasive, upsetting the ecological balance which ultimately impacts negatively upon the water works. A lack of plants, stripped away by inappropriate use or because they can't compete with the non-native invasives, results in increased erosion and sedimenting in the water bodies. Though the system is man-made from headwaters to the bottom lake, it becomes its own thriving "natural" world when properly maintained — and planting is an integral part of this maintenance.

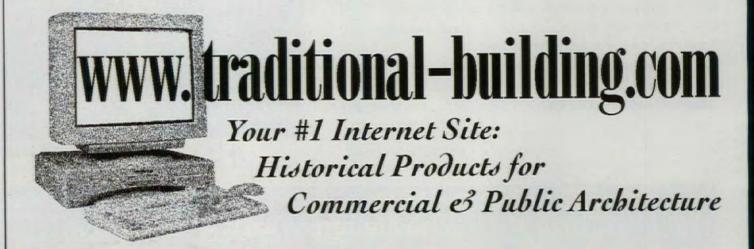
To date, approximately one eighth of the water works has been rebuilt, and where work stops the difference is glaring — not unlike the difference between a black-and-white and a color photograph.

When funds permit continuance of the restoration, new challenges and new discoveries await. Photographs show a lily pool near the Neathermead, not known in living memory, but its location has been identified and will, the cash gods willing, be rebuilt. Streams below must still be opened, dredged and stoned, drain lines opened, lost views found, the river deepened, the invasive growth removed and controlled, and the 50-acre lake cleared, dredged and re-built. The lake alone could cost \$50 million.

But the Alliance struggles on with a dedication to a level of quality and a commitment to historical accuracy that is far more than laudable. It is exceptional and the quality of their work shows in all that they have done. Given time and funds, they will yet restore Prospect Park and its water works to a magnificence not seen nor known since the days of Olmsted and Vaux, and very possibly unsurpassed for sheer beauty in the man-made world.

Keith Davitt is the owner and chief designer for GARDENS, a landscape-design and project-management team located in Park Slope, Brooklyn, N.Y., which handles projects nationwide. Davitt can be reached by phone at 718-857-1787; or visit his website at www.gardenviews.com.

Acknowledgment: The author extends his thanks to Tupper W. Thomas, President of the Prospect Park Alliance, and to her entire staff and in particular to Landscape Architect Christian Zimmerman, for their extensive cooperation.



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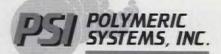
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SourceList 70 Portfolio..... 72-74

"GREEN" BUILDING PRODUCTS

In compiling the "Green" Building Products SourceList we have attempted to provide a practical guide to "green" product selection and specification. Here we discuss some of the major issues involved in becoming, and remaining, environmentally aware.

Michael Carey

ow "green" is "green"? If a city's transportation authority decides to switch from diesel- to electric-powered buses in order to decrease air pollution, this can only be a good thing for the environment, no? Ask the people who live near the coal-burning power plant where the extra electricity is produced about improvements in air quality. Likewise, one would imagine that switching to more energy-efficient household appliances could only be a positive earth-friendly step, but then the waste impacts of discarding the old, still-functional appliances must be taken into account, not to mention the energy required to produce the new appliances. Environmental impacts can sometimes be confusing and contradictory and our decisions can seem to have endless consequences when we look at the big picture. With all the desire in the world to do the right thing, "green" is sometimes not so "green." In the building industry these is-

sues are only compounded. Contractors, builders, specifiers, building managers, and restoration consultants face decisions every day that must take into account a whole slew of considerations, from building time to period authenticity to the bottom line. How, then, are they to factor environmental concerns into the mix and how are they to know that they are doing the most earth-friendly

Our rationale in putting together a "Green" Building Products Source-List is based on the premise that reuse and recycling is incontestably "green," and that the use of renewable resources is environmentally preferable to the use of non-renewable resources. We have not covered issues like energy efficiency or design, but have taken a straightforward, practical, and relatively conservative approach.

The Sourcelist includes companies that specialize in the reuse of building materials, from reclaiming heavy-timber beams to relocating and reusing entire structures; companies that recycle materials to create new building products, such as recycling rubber for flooring and plastics for wood polymer lumber; companies that provide renewable products and services, from bamboo and cork flooring to roof thatching and nontoxic building and maintenance products; as well as a number of industry associations devoted to the promotion of "green" causes.

Our list has not attempted to distinguish overt "greenness" from "greenness" as a byproduct of the search for authentic antique materials or aesthetic concerns. A company like Dodge-Regupol, which has positioned itself as very much a "green" manufacturer with its trademark "ECOsurfaces" flooring created from

recycled post-consumer tire rubber, sits alongside the Durable Slate Company, which deals in salvaged slate roof and floor tiles that are desirable primarily for their authenticity and aesthetic value. These firms both made it onto our list simply because they recycle and reuse materials that would otherwise end up as waste.

So what is at stake in, and what are the impacts from, reuse and recycling of building materials?

Reuse and Recycling

According to Dr. Tim Jones of the University of Arizona's Bureau of Applied Research in Anthropology, which has been analyzing landfill and other garbage since 1973, over 20 percent of landfill is building debris, from both construction and demoli-

Significantly, Jones refers to "loss" rather than "waste" when speaking of garbage, seeing discarded building materials and unrecycled debris as not only creating waste-disposal problems, but as material and energy which is simply lost when it is put in a landfill. For Jones there is no doubt that the everyday decisions made by building professionals can have a major impact. Recycling materials is more cost-effective than ever, with wastedisposal costs increasing dramatically over the last few years and landfills being closed around the country, and more and more information is being made available to professionals, Jones says, citing events such as the National "Green" Building Conference.

Studies also show just what dramatic effects reuse and recycling could have on the industry. One such study, from the School of Architecture at Washington State University, shows that as much as 90 percent of construction waste can be reused or recycled, and that the majority of demolished material can be used in new

Materials such as beams, girders, joists, and other structural elements, wood framing materials, brick, terra cotta, stone, doors, windows, hardware, finishes and trim, handrails, and miscellaneous ornamentation, as well as electrical and mechanical fixtures are all potentially reusable. Materials such as asphalt paving, concrete, wood framing, other wood and fiber products, gypsum drywall, metals (copper, steel, aluminum), paper packaging, and plastics are all re-

Renewable Resources

As for renewability, there has been an increasing awareness of this fundamental problem in the industry, which will only become more pressing as time goes on. Non-renewable resources create, by definition, finite commodities, so as the non-renewable becomes increasingly rare and

expensive, renewability will have to become a more-important factor in materials choice.

This development is reflected in the number of companies on our

SourceList that manufacture products as diverse as flooring, furniture, and roofing from renewable resources as diverse as bamboo, cork, and straw-

Green Building Resources

We have also compiled a list of government agencies, associations, and corporations which deal with all aspects of "green" building. Here you will find information and service resources ranging from Environmental Protection Agency standards to listings of regional receycling centers.

- · Environmental Protection Agency, Ariel Rios Building, 1200 Pennsylvania Avenue NW, Washington, DC 20460 Phone: (202) 260-2090 Website: http://www.epa.gov
- The Green Building Alliance, 64 South 14th Street, Pittsburgh, PA 15203 Phone: (412) 431-0709 Fax: (412) 431-1432 Website: http://www. gbapgh.org
- National Association of Home Builders, 1201 15th Street NW, Washington, DC 20005 Phone: (800) 368-5242 or (202) 822-0200 within the Washington, D.C., metropolitan area. Website: http://www.nahb.com
- Natural Resources Defense Council, 40 West 20th Street, New York, NY 10011 Phone: (212) 727-2700 Fax: (212) 727-1773 Website: http://www.
- RecycleNet Corporation, P.O. Box 24017, Guelph, ON Canada, N1E 6V8 Phone: (519) 767-2913 http://www.recycle.net
- US Green Building Council, 110 Sutter Street, Suite 410, San Francisco, CA 94104 Phone: (415) 445-9500 Fax: (415) 445-9911 Website: http:// www.usgbc.org



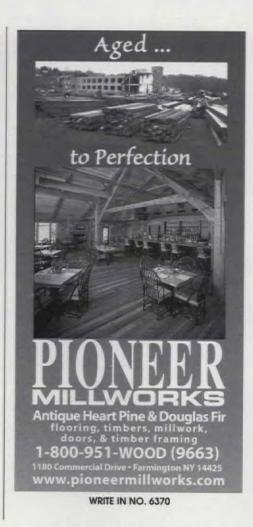
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Green Building Products SourceList

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COMPANY FM/American Formulating & Mfg. 19-239-0321; Fax: 619-239-0565 rww.afmsafecoat.com an Diego, CA 92103	SPECIALTY Manufacturer of a full line of low-odor, non-toxic building and maintenance products which can be safely used by people who are chemically sensitive, including Safecoat paints & finishes and Safechoice cleaners and carpet care.	Literature free
America Heart Pine, Inc. 300-554-5765; Fax: 901-382-0577 www.americaheartpine.com Arlington, TN 38002	Specialist in antique heart-pine. Oak, pine, heart pine, chestnut, maple, cypress, and Douglas fir in new cut or vintage stock; other species available. Flooring, cabinets, door stock, molding, stair parts, air vents, beams.	Free Write in No. 4060
Antique & Vintage Woods Of America 518-398-9663; Fax: 518-398-9666 vww.floorings.com Pine Plains, NY 12567	Firm provides recycled & reclaimed beams, flooring, and trim materials for repairs & additions to new & old buildings.	Free
Architectural Products by Outwater 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware & lighting. Also, recycled plastic lumber; architectural moldings & millwork.	Free Write in No. 2553
Authentic Wood Floors, Inc. 800-765-3966; Fax: 717-428-0464 P.O. Box 153 Glen Rock, PA 17327	Lumber reclaimed from barns and warehouses and recycled into flooring, beams, paneling, molding, wainscoting, etc. Company mills and kiln-dries product.	Free Write in No. 8000
Brandy Hollow Restorations 518-239-4746; Fax: Same as phone Brandy Hollow Rd., P.O. Box 7 Durham, NY 12422	Over 20 dismantled antique barns, carriage houses, and farmhouses. Offers structural restoration and frame altering for customized needs using antique building materials and traditional joinery. Delivery and setup anywhere.	Free Write in No. 3180
Cammco EverLast Timbers 877-922-6626; Fax: 256-832-0169 2510 Electronics Dr. Anniston, AL 36207	EverLast Timbers are made from 100% recycled products and are impervious to rot, insects, warping, and water damage. Ideal for sea walls, retaining walls, and landscape uses.	Free Write in No. 2587
Canadian Salvaged Timber Corp. 905-773-0556; Fax: 905-773-6496 36 Antique Dr. Richmond Hill, ON, CANADA L4E 3X5	Supplier of recycled timbers, planks, and lake- and river- retrieved logs and timber. Specializes in Douglas fir and heart pine. Wholesale prices. Mantels, lintels, all-wood structures made from recycled material.	Free
Carlisle Restoration Lumber 800-595-9663; Fax: 603-446-3540 www.wideplankflooring.com Stoddard, NH 03464	Custom-crafted wide-plank floors in widths up to 20 in. and lengths up to 16 ft. Recycled flooring includes such antique woods as Eastern white pine, heart pine, oak, chestnut, and barnsiding. Flooring is resawn from structural timbers salvaged from early-19th-century barns and factories.	Free Write in No. 5580
Centre Mills Antique Floors 717-334-0249; Fax: 717-334-6223 www.igateway.com/mall/home- imp/wood/index.htm Aspers, PA 17304	Original period log cabins; antique flooring; hewn logs for rafters and joists (structural and decorative); doors; decorative architectural elements; porch posts; wavy glass; more.	Free Write in No. 1740
Certified Forest Products Council 503-590-6600; Fax: 503-590-6655 www.certifiedwood.org Beaverton, OR 97007	Non-profit, independent business organization promotes the use of wood from certified well-managed forests. Information provided to help architects, specifiers, & purchasing agents match demand with supply through an on-line database of certified products & suppliers.	Free
Chestnut Specialists, Inc. 860-283-4209; Fax: Same as phone www.chestnutspec.com Plymouth, CT 06782	Original planks and remilled flooring from antique salvaged lumber in chestnut, oak, and pine. Randomwidth, -length; planed t&g or square-edged, kiln-dried. Antique barn beams and rough wideboard planks also available.	Free Write in No. 8780
Chestnut Woodworking & Antique Flooring 860-672-4300; Fax: 860-672-2441 www.chestnutwoodworking.com West Cornwall, CT 06796	Original wideboard flooring and remilled tongue-&- groove flooring in chestnut, oak, white pine, heart pine, and hemlock. Kiln-dried. All recycled woods. Also, furniture-grade antique woods; hand-hewn beams; barn siding.	Free Call for more information
Christopher D. Hess, Inc. 610-760-9533; Fax: Same as phone 3931 Cedar Dr. Walnutport, PA 18088	"Age & Element Enhanced" reclaimed barn lumber for rustic and contemporary uses, casual to elegant. Beams & other structural materials milled to custom widths and lengths, graded & kiln-dried; chestnut, oak, white pine, hemlock.	Free Write in No. 1275
ContempoCork, LLC 201-986-7915; Fax: Same as phone 175 Dorchester Rd River Edge, NJ 07661	Featuring a line of color cork floor and wall tiles; custom color development and installation consultation to architects/designers countrywide.	Free
Country Road Associates, Ltd. 845-677-6041; Fax: 845-677-6532 www.countryroadsassociates.com Millbrook, NY 12545	Supplier of 19th-century reclaimed wood from barns and homes, for reuse as flooring, cabinetry, or paneling.	Free Write in No. 7480
Dodge-Regupol, Inc. 800-322-1923; Fax: 717-295-3414 www.regupol.com Lancaster, PA 17608	Manufacturer of recycled-rubber products for commercial flooring, sports surfacing, playground tile, and industrial materials. Also, natural-cork floor tile.	Free Write in No. 3420
Duluth Timber Co. 218-727-2145; Fax: 218-727-0393 www.duluthtimber.com Duluth, MN 55816	Resawn planks and beams, flooring, paneling, and custom millwork from recycled heart pine and Douglas fir timbers; 'as is' timbers; national shipping. Custom jobs; specialist in whole-house projects. All materials are reclaimed from demolition.	Free Write in No. 112
Dumais Antique Structures 603-622-2254; Fax: Same as phone 137-2 West Merrimac St. Manchester, NH 03101	Dealer in antique barns, Early American homes, building material, and flooring.	Free
Durable Slate Co. 800-666-7445; Fax: 614-299-7100 www.durableslate.com Columbus, OH 43201	Source of new and salvaged roofing and flooring slate; salvaged and custom-manufactured clay tile for historic roofs. Also, hard-to-find concrete and rigid mineral-fiber tiles. Identification and installation advice available.	Free Write in No. 3720
Endura Wood Products 503-233-7090; Fax: 503-233-7091 www.endurawood.com Portland, OR 97214	Wide variety of certified and rediscovered exotic and domestic flooring, lumber, and other environmentally preferable building products.	Free
Fitzgerald Heavy Timber Construc- tion 301-898-9340; Fax: 301-898-9341 www.fitzgeraldtimberframes.com Thurmont, MD 21788	Vehicular & pedestrian covered wooden bridges, designed and built utilizing traditional construction techniques and modern preservation practices. Standing- seam metal roofs and fire-retardant application for 100- year life expectancy.	Free Write in No. 2300
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 2555
Goodwin Heart Pine Co. 800-336-3118; Fax: 352-466-0608 www.heartpine.com Micanopy, FL 32667	Recovered logs and timber products for use in flooring, stair parts, cabinetry, doors, and architectural millwork. The firm also founded the Association for the Restoration of Longleaf Pine in 1992 to support	Free Write in No. 1330

COMPANY	SPECIALTY	Literature			
Green" Hotels Assoc. 713-789-8889; Fax: 713-789-9786 www.greenhotels.com Houston, TX 77242	Association of hotels interested in protecting the environment through saving water, saving energy, and reducing solid waste. Supplier of low-flow plumbing devices, recycling baskets, etc.	Free			
Harvey Millwork, Inc. 410-822-7689; Fax: 410-745-9926 www.harveymillwork.com Bozman, MD 21612	Free Write in No. 3460				
Henderson Corporation 800-888-9111; Fax: 208-368-0783 www.hendersoncorporation.com Boise, ID 83707	Free Write in No. 2756				
sobord Enterprises, Inc. 503-242-7345; Fax: 503-721-0940 www.isobord.com Portland, OR 97201	Manufacturer of environmentally friendly products, including a new underlayment made from strawboard and non-formaldahyde resins.	Free			
Korq, Inc. 212-758-2593; Fax: 212-758-0025 www.exinc.org New York, NY 10022	Firm develops new designs and products made in whole or in part of cork from Sardinia: floor tiles, wall tiles, furniture, architectural baseboards & detailing, and upholstery fabrics.	Free			
Kronenberger & Sons Restoration 860-347-4600; Fax: 860-343-0309 www.kronenbergersons.com Middletown, CT 06457	Free Write in No. 536				
Leatherwood, Inc. 615-799-1638; Fax: 615-799-1430 7106 Black Pine Rd. Fairview, TN 37062	General contractor specializing in all aspects of historic restoration. Services include providing antique building materials and architectural antiques, and the disassembling, moving, and restoration of historic buildings.	Free Write in No. 1228			
Linoleum City / Cork America 800-795-2675; Fax: 323-465-5866 5657 Santa Monica Blvd. Los Angeles, CA 90038	Traditional solid-cork tiles in light, medium, dark, and multi shades, available unfinished, waxed, or coated with polyurethane.	Free			
Longleaf Lumber 617-625-3659; Fax: 617-625-3615 www.longleaflumber.com Somerville, MA 02143	Antique-lumber mill specializes in longleaf heart pine, chestnut, Eastern antique white pine, and other woods; flooring and custom milling; wide-plank and random-width boards. Also, barn boards.	Free Write in No. 272			
McGhee & Co. Roof Thatchers 888-842-8241; Fax: 804-823-1218 www.thatching.com Charlottesville, VA 22901	Roof-thatching firm specializing in English reed thatching.	Free Write in No. 2502			
Mintec Corp. 410-296-6688; Fax: 410-296-6693 www.bamtex.com Towson, MD 21286	'Bamtex' bamboo flooring is as hard as hard maple, environmentally friendly, durable, and highlighted with interesting natural patterns.	Free Write in No. 55			
Natural Cork, Ltd. 706-733-6120; Fax: 706-733-8120 www.naturalcork.com Augusta, GA 30904	Natural-cork products, including parquet tiles in 12x12- and 12x24-in. sizes; "Floating Floor" systems; cork wall covering; cork floor-underlayment rolls and sheets; and cork cleaning products.	Free Write in No. 2868			
Pioneer Millworks 800-951-9663; Fax: 716-924-9962 www.pioneermillworks.com Farmington, NY 14425	Firm creates high-quality reclaimed wood flooring, doors, molding, trim, timbers, furniture, cabinetry, and stair parts from timber salvaged from old building sites and barns.	Free Write in No. 6370			
Plaza Hardwood, Inc. 800-662-6306; Fax: 505-466-0456 5 Enebro Ct. Santa Fe, NM 87505	FSC-certified hardwood flooring and 18th-century reclaimed watersawn pine wide-plank flooring.	Free Write in No. 723			
Recycled Lumberworks 707-462-2567; Fax: 707-462-8607 596 Park Blvd. Ukiah, CA 95482	Company provides reclaimed timber and lumber from industrial buildings, bridges, water- and wine-tanks; custom milling for architectural woodwork and antique flooring.	Free Write in No. 1305			
Roof Tile & Slate Co. 800-446-0220; Fax: 972-242-1923 www.claytile.com Carrollton, TX 75006	Large inventory 'in stock'; custom blending of clay tiles and used roofing state; field tiles and trim are palletized and ready to ship; also, flooring for interior spaces, specialty trim for historical projects.	Free Write in No. 9560			
Safari Thatch & Bamboo 954-564-0059; Fax: 954-564-7431 www.safarithatch.com Fort Lauderdale, FL 33305	All tropical- and jungle-theming materials, including thatch bamboo, rustic bamboo and eucalyptus fencing, exotic timber, int./ext. foliage. Also, ready-to-assemble thatch and bamboo kiosks, pavilions, trellises, fences, and more.	Free Write in No. 621 for Roofing and No. 6591 for Fencing & Flooring			
Salisbury Timberbuilt Homes 206-842-9999; Fax: Same as phone 7671 Day Road West Bainbridge Island, WA 98110	Wide-plank flooring, stairways, timber-frame buildings, timber components, & dining tables from salvaged & recycled Douglas fir from the Pacific Northwest. Also, non-toxic, environmentally friendly wood-flooring fillers & finishes.	Free Write in No. 2605			
The Woods Company 717-263-6524; Fax: 717-263-9346 www.thewoodscompany.com Chambersburg, PA 17201	Wide-plank flooring from new woods & remilled antique woods (heart pine, oak, chestnut, white pine); brushtextured flooring; stair parts; antique beams; floor decking; exposed-beam ceiling & joist systems; antique foundation stone.	Free Write in No. 5600			
Timber & Stone Restorations 800-847-2944; Fax: www.timberandstone.com Fredericksburg, TX 78624	Firm salvages and restores log buildings, and sells restored buildings and materials.	Free Write in No. 2559			
Timeless Timber 888-653-5647; Fax: 715-685-9620 www.timelesstimber.com Ashland, WI 54806	Timbers produced exclusively from 100% recovered submerged timber, certified by Scientific Certification Systems (SCS), accredited by the Forest Stewardship Council (FSC).	Free Write in No. 2604			
TREX Company, Inc. 540-678-4070; Fax: 540-678-1820 www.trex.com Winchester, VA 22601	Wood polymer lumber for decking and landscaping, composed partially of recycled plastic resin.	Free			
VenTec Ltd. 312-733-7383; Fax: 312-733-7992 www.ventecveneer.com Chicago, IL 60622	Dyed natural and reconstructed wood-veneer products, including flooring, wallcovering, and panels for millwork and fixturing. The dying of the veneers makes for more useable material in the production process, thus reducing waste.	Free			
Vintage Beams & Timbers 828-586-0755; Fax: 828-586-4647 P.O. Box 548 Sylva, NC 28779	Hand-hewn timbers, reclaimed lumber, antique flooring, ancient Chinese brick and stone, architectural salvage, design services, movie sets and scenes, custom tree and log work, more.	Free Write in No. 8640			
Vintage Lumber Sales Co. 706-538-0180; Fax: 706-538-6558 P.O. Box 243 Gay, GA 30218	Superior-grade heart pine and river-recovered cypress for flooring, paneling, and custom millwork.	Free Write in No. 3075			

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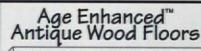


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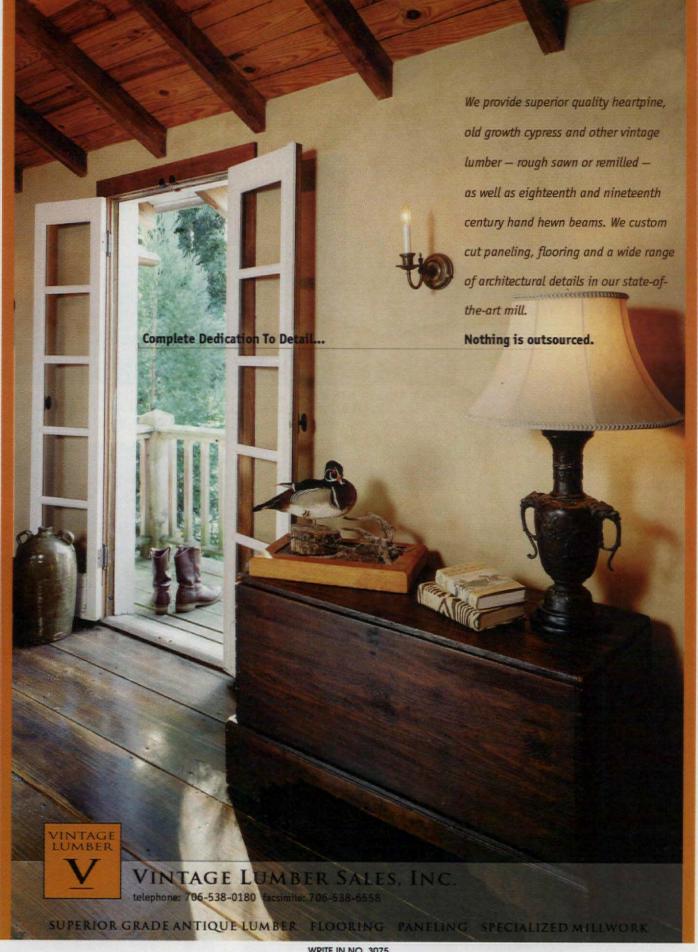
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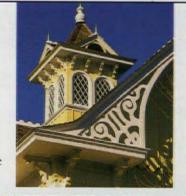


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"GREEN" BUILDING PRODUCTS PORTFOLIO

For full contact information on these companies, consult the SourceList on page 70.



The main warehouse at AUTHENTIC WOOD FLOORS boasts an impressive array of resawn chestnut, pine, and oak board. Write in No. 8000



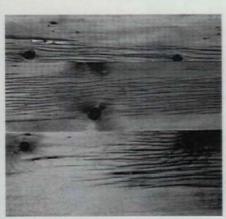
This selection of antique reproduction furniture has the distinction of being crafted from recycled 19th-century barnwood by COUNTRY ROAD ASSOCIATES. Write in No. 7480



As well as doing restoration work on log and timber-frame homes, LEATHER-WOOOD, INC., supplies antique timber for flooring. Write in No. 1228



ROOF TILE & SLATE CO.'s huge inventory of salvaged roof tiles includes the Ludowici and Heinz shingle tiles used to repair this roof after severe hail damage. Write in No. 9560



This antique Element Enhanced Eastern white pine flooring was salvaged and reworked by CHISTOPHER HESS, INC. Write in No. 1275



CARLISLE RESTORATION LUMBER's range of recycled flooring includes antique Eastern white and heart pine, antique chestnut, oak, and barnsiding. Write in No. 5580



Materials reclaimed from demolition by DULUTH TIMBER CO. were used for the structure of this building in Gooseberry Falls State Park in Northern Minnesota. Write in No. 112



Timber framing is only one of the applications for which the vintage timber and lumber milled by RECYCLED LUMBERWORKS can be used. Write in No.



This flooring was supplied by PLAZA HARDWOOD from sustainably harvested, standard-grade conservation maple. Write in No. 723



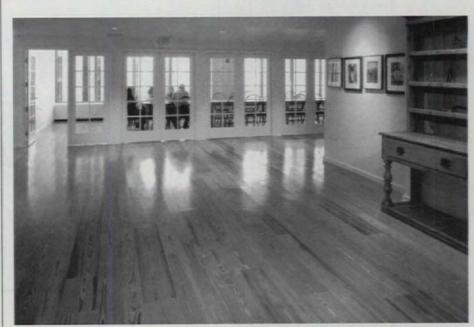
Reclaimed wood from PIONEER MILLWORKS is seen here featured in cabinetry, flooring, and timberframing. Write in No. 6570



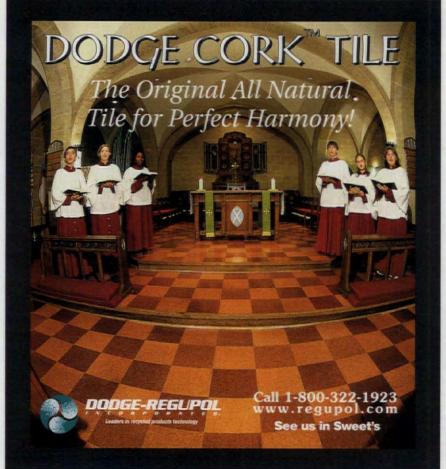
Antique timber is recycled into beautiful wide-board flooring by THE WOODS COMPANY. Write in No. 5600



CHESTNUT SPECIALISTS, INC., dismantle old structures, such as the farm building seen here, and remill the wood for flooring. Write in No. 8780 $\,$



The flooring in this corporate headquarters is GOODWIN HEART PINE CO.'s Signature heart pine, which was milled from first-growth "sinker" logs, harvested from the bed of the Suwannee River in North Florida. Write in No. 1330



WRITE IN NO. 3420

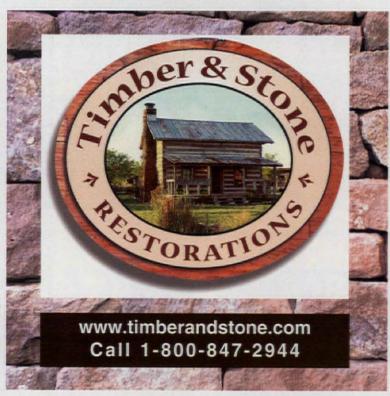
Historic Homesteads • Sales

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Frame

Timber

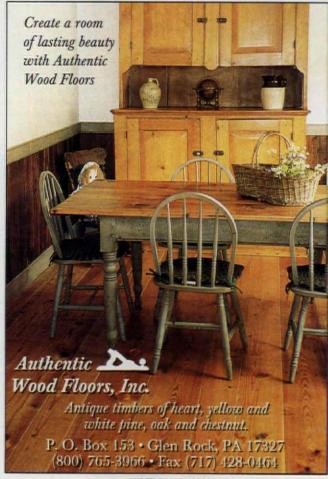
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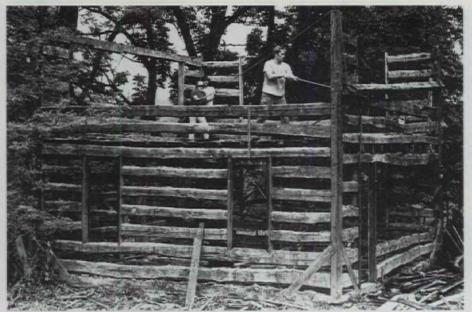
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"GREEN" BUILDING PRODUCTS PORTFOLIO

For full contact information on these companies, consult the SourceList on page 70.



Workers from CENTRE MILLS ANTIQUE WOOD are seen here dismantling an old cabin in order to salvage its timber for remilling and reuse. Write in No. 1740



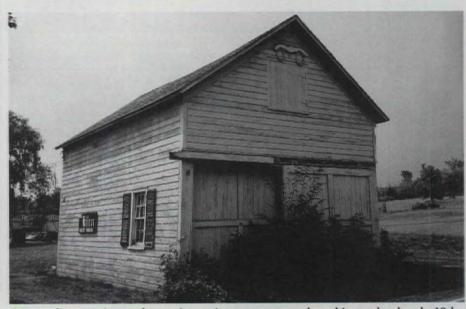
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DODGE-REGUPOL, INC., manufactures several lines of flooring from recycled rubber, including ECOstone, seen here in the lobby of a healthcare facility. Write in No. 3420



This distinctive paneling was done in antique heart pine by JAMES E. HARVEY MILLWORK, INC. Write in No. 3460



Dismantling, moving, and restoring entire structures, such as this two-level early-19th-century carriage house, is the specialty of BRANDY HOLLOW RESTORATIONS. Write in No. 3180



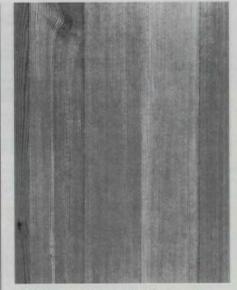
NATURAL CORK provided this flooring for the Steffen Thomas Museum and Archives near Atlanta, Ga., which was chosen for its stability and insulation qualities. Write in No. 2868



Inventive work with recycled lumber and barnwood, such as in this entryway and stair, is a hallmark of VINTAGE BEAMS & TIMBERS. Write in No. 8640



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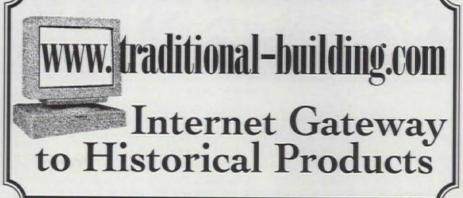
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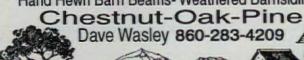


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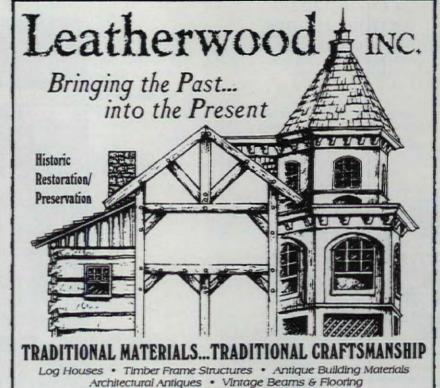
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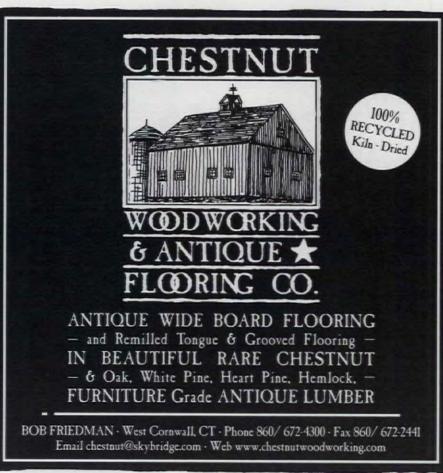
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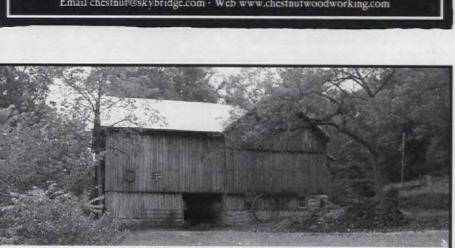
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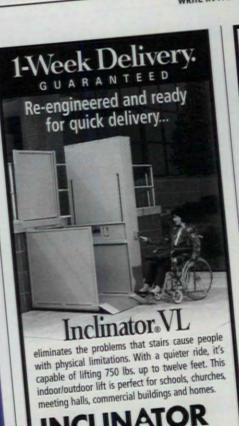
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ANNUAL SPECIAL FEATURE

Landscapes, Streetscapes & Public Parks

Recent Projects From Our Subscribers

The following four landscape projects were selected by the editors from among several dozen submissions from the magazine's readers. The first is the creation of a community park, the second is the restoration of a 19th-century parkway, the third is the creation of a community commons, and the fourth is a good example of adaptive reuse.

HERITAGE PARK
Culver, Indiana
MARK M. HOLEMAN, INC.
Indianapolis, Indiana

When the owner of an old gasoline service station deeded his property to the town of Culver, Ind., members of the local Antiquarian Society saw a potential in the 50-ft.-x-110-ft. plot as a community park. The site, however, was environmentally bad: Tanks had to be removed along with a great depth of oil-saturated soil. After meeting with Mark M. Holeman, Inc., a general project was outlined with the firm's guidance. A design flavor of modified Victorian was agreed upon as appropriate for this community, in which many buildings date from the 1870s. A general look of a green oasis was desired, as the site was surrounded by pavements and masonry buildings.

The costs ran to \$175,000, raised through donations and the sale of name-embossed brick pavers that made up the park's public sidewalks, in-park paths, and the flooring for its pergola. Everything was produced by local craftspeople, including the



This photo, taken prior to the work on Heritage Park, shows the old service station that originally occupied the site; peeking up just behind it is the top of the local library.



With the station gone, the library is fully revealed — and a lot of oil-soaked dirt has to be removed.

masonry work, wrought-iron fencing, carpentry work, and plantings. (A Norway spruce was also included among Heritage Park's hydrangea and locust trees, which will serve as a community Christmas tree at Yule time.) Dedication day was a classic Midwestern town celebration, complete with a band and honor guard with flags, singers, and the area's state representatives, along with, of course, the local population.



The completed park features locust trees and hydrangea framing the Victorian-style pavilion, which was created by local craftspeople (and you can still see the library!).

A screen borders the adjacent building, and is complemented by matching benches. Note the occasional white pavers near the benches: They're embossed with the names of donors who helped finance the creation of Heritage Park.

LANDSCAPES, STREETSCAPES & PUBLIC PARKS

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COMMONWEALTH AVENUE Newton, Mass. CAROL R. JOHNSON ASSOC. Cambridge, Mass.

istoric Commonwealth Avenue in Newton, Mass., is a 19th-century parkway originally designed to promote a new suburb for the successful merchants of Boston, who commuted along the parkway in horse-drawn trolleys. Carol R. Johnson Associates (CRJA) of Cambridge, Mass., was hired to provide landscape-architectural services to restore Commonwealth Avenue. The goal is to bring back such unique features as arboretum tree planting and historic signage and lighting, while at



In this historic photograph, taken in the 1880s, portland cement is applied to Commonwealth Avenue (near Chestnut Street). (City of Newton Photo Archive)

the same time ensuring that the century-old parkway can accommodate contemporary traffic needs.

CRJA's design team, which includes traffic engineers and urban planners, researched the history of Commonwealth Avenue and prepared an inventory of its present condition. The restoration design includes the improvement of the reservation and carriageway as a "linear park." Granite-paved neckdowns at all four-way intersections will significantly reduce through traffic on the carriageway. CRJA's restoration master plan for this unique, historic corridor divides the project into five phases. With phase one completed, the City of Newton is currently seeking state and federal funding for phases two and three.

Top photo: Lined with historically appropriate Washington post lighting and acorn globes from Spring City Lighting, Commonwealth Avenue transports pedestrians to an earlier era of community beauty and pride.

Center photo: Even though it's still in the early stages of restoration, the "linear park" is already becoming a favorite with locals.

Right: This far shot of the verdant, treefilled landscape reveals just what kind of a gift to Newton, Mass., Commonwealth Avenue really is. (All photos: Jerry Howard)

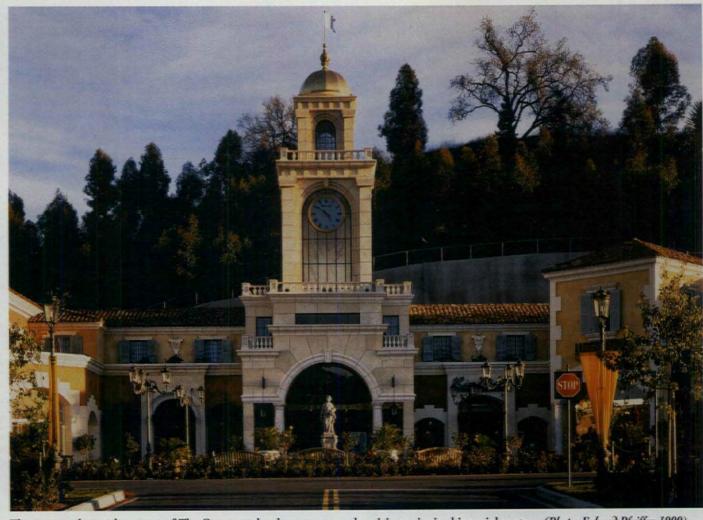




THE COMMONS Calabasas, Calif. JAMES DEAN, A.S.L.A. Thousand Oaks, Calif.

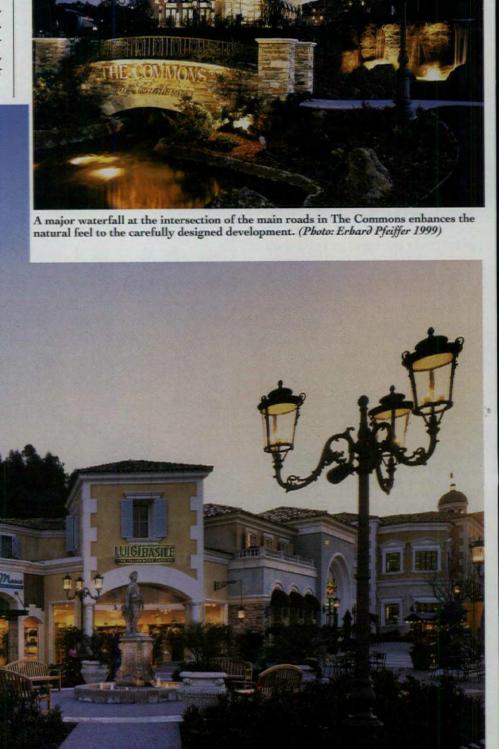
he Commons at Calabasas, Calif., transformed 200,000 sq.ft. of leasable commercial space into a social center for the surrounding communities: a family-oriented entertainment center where people may gather, dine, shop, see a film, and just enjoy the wonderful surroundings. The elongated site, with an approximately 1/4-mile distance and a 50-ft. vertical slope from one end to the other, raised considerable site-planning issues for James Dean, A.S.L.A. Accommodating large, flat tenant spaces while satisfying critical handicap-access problems was the most challenging constraint.

The architectural arrangement of The Commons creates pedestrian spaces which expand and contract, after the manner of the Baroque period. A specially designed concrete paving pattern of acid-based stains establishes a common link to the adjacent spaces; imported stone paving was used in other areas. Statuary and planted pottery were placed to create a friendly and comfortable scale to the individual spaces, with a major waterfall (having a freefall flow of 4,400 gallons per minute) at the intersection of the main roads. Visitors can enjoy the water display from a small bridge complete with benches. A smaller fountain feature at the geographic center of the project displays one of a quartet of 200-year-old stone statues, imported from France. Another grand water feature with falls



The rose garden at the center of The Commons has become a popular visitors site in this social center. (Photo: Erbard Pfeiffer 1999)

and vertical jets is located near the sidewalk food-court dining area; adjacent to the restaurant facilities, this area also features whimsical bronze statues and natural-stone paving. An oval-shaped lawn, separating two outdoor dining areas, boasts a large, mature California Redwood tree, which serves as a decorated Christmas tree at holiday time; year-round, the lawn is a favorite play site for children.



The main entry road leading into The Commons is centered on a handsomely appointed clock tower. (Photo: Erbard Pfeiffer 1999)

TOWN OF FORT SHERIDAN Highland Park, Illinois JACOBS/RYAN ASSOC. Chicago, Illinois

or the redevelopment of a 135acre military base into a residential community, Jacobs/Ryan Associates (JRA) was brought in to serve as landscape architects, and remained involved from the initiation of the project, through design and construction documentation, to construction observation.

The landscape-architectural services began with a historic-land-scape investigation of the site, including a complete inventory of the existing site conditions — and there were more than 1,200 mature trees existing on the site. JRA worked to retain the intent of the landscape's original designer, O.C. Simonds, which involved the use of pleasing landscapes incorporating natural themes. Materials such as historic photos of the site, along with Simonds' book *Landscape Gardening* (in



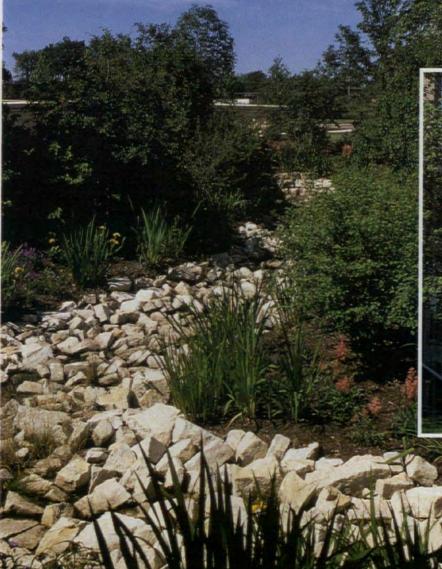
Edged in limestone and enhanced with perennials, this new storm-water-detention pond was added to provide detention required by the increased number of residents. (Photo: Bernard Jacobs - Jacobs/ Ryan Associates)



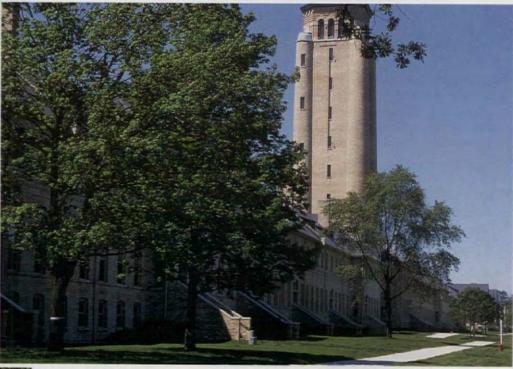
This new entry is also based on O.C. Simonds' original plan for the site. The large tree was saved by slightly altering the road layout. (Photo: Bernard Jacobs - Jacobs/Ryan Associates)



Prior to development, the existing streetscape — including this stretch near the officers' residences — had to be completely inventoried, which included documenting over 1,200 trees. (Photo: Jacqueline Kotz - Jacobs/Ryan Associates)



Also added to the landscape — and enhanced through the use of perennial and wild-flower plantings — was this new water swale, situated near the respectfully named Simonds Way Road. (Photo: Bernard Jacobs - Jacobs / Ryan Associates)



The military base's barracks building (converted into residences) and tower were mute observers as the landscapers moved existing trees to conform with O.C. Simonds' original landscape plan, which showed an open lawn. (Photo: Bernard Jacobs - Jacobs/ Ryan Associates)

which he described the vision of his landscape), were studied as guides in the formulation of the landscape design for the new development.

JRA carefully blended the existing landscape with the proposed design of the new development. Within Simonds' own parameters, and the existing remnant landscape, historic views and fabric have been retained, and a plant palette and design which reflect Simonds' intent have been created.

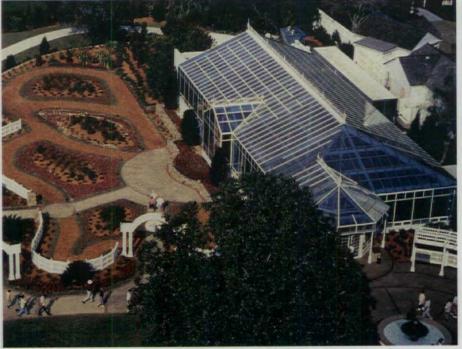
The Glass House In Commercial Applications

The conservatory is frequently thought of as a purely residential amenity.

But the Glass House has a long history in commercial and public applications, starting with the Crystal Palace built for London's 1851 Great Exhibition. Here are five recent examples where the unique light-gathering capacities of glass pavilions have been tapped for use in a theme park, three restaurants, and a manufacturing facility.

BUTTERFLY CONSERVATORY IN FLORIDA SUNSHINE ROOMS, INC., WICHITA, KANSAS

"Wings of Wonder" is a 5,500-sq.ft. butterfly conservatory at Florida's Cypress Gardens, located near Orlando, which houses over 50 species



As seen from the airborne butterfly's perspective, the 6,800-sq.ft. conservatory is part of a vista of colorfully landscaped grounds. (Photos: Florida Cypress Gardens)



Visitors to the Wings of Wonder Butterfly Conservatory pass by a handsome tiered fountain, complete with a butterfly sculpture that looks as if it's about to fly off into the conservatory.

of butterflies. Built in 1993, this structure from Sunshine Rooms, Inc., is custom-designed in the style of a Victorian greenhouse and measures 100 ft. long x 68 ft. wide x 25 ft. tall. The conservatory maintains strict levels of temperature (80 degrees F) and humidity (70%) for the health of its winged inhabitants, and is filled with plants for their nourishment, as well as featuring palm trees, ferns, and a trio of waterfalls for the delight of visiting humans.

ADDITION TO RESTAURANT IN INDIANAPOLIS, IND. PATIO ENCLOSURES, INC., MACEDONIA, OHIO

The oldest commercial business in Indianapolis is the Slippery Noodle Inn; built in 1850, the Inn is also the oldest bar in the state and one of the oldest blues bars and restaurants in the country. So when owner Hal Yeager decided to add on a glass structure to increase the restaurant's seating capacity, the community's historical society raised concerns about the impact on the building. Commercial Sunroom Products (C.S.P.), the commercial division of Patio



Seen from within, the custom-designed solarium features 1-in. insulated bronze glazing throughout, and a bronze aluminum, duracron/polycron finish. (Photos: Commercial Sunroom Products division of Patio Enclosures, Inc.)

Enclosures, Inc., investigated the property and held discussions with the owner to ensure that the addition would be sympathetic to the Inn. The result was a two-story mounted solarium with a floor in between. Brick from a nearby razed building was added to the outer part of the wall, to match the Inn's historical brick. The addition was completed in about 70 days, from design and engineering to manufacture and installation, with C.S.P. providing turnkey service. The Slippery Noodle Inn can now seat an additional 165 patrons — who can also enjoy the Inn's popular blues band from within the new glass enclosure.



Prior to the addition, the Slippery Noodle Inn was Standing Room Only on weekends and at lunchtime. But with a solarium from the commercial division of Patio Enclosures, Inc., the restaurant increased its seating capacity while respecting all building codes as well as the historic foundation of the 19th-century building itself.

DINING-ROOM ADDITION TO HOTEL, ISTANBUL, TURKEY FOUR SEASONS SUNROOMS, HOLBROOK, N.Y.

Visitors to the Hotel Piyer-Loti in Istanbul, Turkey, can dine indoors and outdoors at the same time, thanks to a glass-house addition custom-designed by Four Seasons Sunrooms. The steel substructure uses reinforced purlins to reduce the profile of the aluminum extrusions, creating a graceful



The main steel substructure of the addition, easier to see in this interior view, supports the slimmer lines of the structure and permits patrons to enjoy a open-air feeling.



Hip corners, curved eaves, and quad doors are all unique features of this customdesigned dining-room addition from Four Seasons Sunrooms.

and elegant open-air feeling, while reducing the associated costs. The addition is made of the firm's exclusive MC WonderglassTM, which keeps out the summer heat gain and winter heat loss associated with normal glass building additions, making it the only building of its kind able to be heated and cooled regardless of the outside temperature. A free-standing unit featuring four hip corners and curved eaves all around, the addition's rear curves meet at a flat section of the main building, providing for large passageways through the walls, which open directly into the hotel. "Quad doors" (four-panel folding doors) enable the sidewalls to be completely retracted during mild weather.

GREENHOUSE FOR MANUFACTURING FACILITY, AURORA, N.Y. WARD GREENHOUSES, CONCORD, MASS.



Seen from inside, the completed greenhouse captures sunlight from virtually every direction — and provides an impressive view of the natural vista surrounding MacKenzie-Childs, Ltd. (*Photos: Heather Bruno-Sears*)

Richard MacKenzie-Childs of MacKenzie-Childs, Ltd., read about green-house-restorer Mark Ward in the pages of *Traditional Building*, and when the time came to add on a greenhouse to his manufacturing facility in upstate New York, he turned to Ward Greenhouses. From Mark's inventory, Richard selected a Lord & Burnham greenhouse, thought to have been originally built in the late 1930s or early '40s; with the help of Mark and his assistant John Lam, the vintage structure was erected.

MacKenzie-Childs, Ltd., grows about 25,000 seed-start flowers to enhance its own buildings and property. Tourists who visit the facility can walk through its stately gardens, visit the pottery and furniture-manufacturing studio, and make purchases in the firm's shop. According to Building and Facility Manager Robert G. Miller, "The greenhouse is truly green and one beautiful structure. [...] The tone and atmosphere that the flowers project are very warm and restful." ■



These miniature hothouses receive flowers that began life in the greenhouse behind them. After they become acclimated to the outdoor weather conditions, they're planted throughout the firm's grounds.



The greenhouse is shown while still under construction — or more properly for this vintage structure, reconstruction — on the MacKenzie-Childs grounds. The firm's staffmembers tackled the job alongside Mark and John of Ward Greenhouses and completed the work in approximately three weeks. The large building at far left — also a restored structure, purchased from Cornell University — houses the groundkeepers and their equipment; the smaller wing includes the head house where flowers are repotted.

CIGAR ROOM FOR RESTAURANT IN W. ORANGE, NJ CLASSIC CONSERVATORIES, INC., UNION, NJ

Restaurateur Harry Knowles found the perfect solution to the often-punishing segregation of smokers who dine out: His Pleasantdale Chateau features a glass-house addition from Classic Conservatories as a cigar room. With this graceful innovation, the one-time dining pariahs are now made to feel like members of an exclusive (if smoky!) club, enjoying a cheery, elegantly designed retreat that looks onto the world, while their less-fortunate, clean-lunged peers have only opaque walls on which to gaze. Further proof of the magic of such a conservatory addition? After the success of this innovation at The Chateau, Harry Knowles added a glass-house onto his own home.





As seen in these exterior photos, the conservatory is a sympathetically designed and scaled addition to New Jersey's Pleasantdale Chateau.



Glimpsed before any cigar-smoking has commenced, the conservatory's interior extends the Chateau's flooring and lighting design schemes.



The Chateau's owner, Harry Knowles, was so charmed by the restaurant's Cigar Room conservatory that he decided to have Classic Conservatories provide a glass addition to his own residence. (Photos: Classic Conservatories)



PUTTING UP WALLS

To build a retaining wall one must first evaluate the location. This article details how to specify retaining walls and what options the engineer or supplier might offer.

by Leslie Jay

A s part-time New England farmer Robert Frost might have observed, good walls make good gardens. Masonry holds back soil and gives definition to planted areas. Properly constructed, the results are so durable that we commonly describe unyielding barriers as "stone walls."

Today, retaining-wall options range from natural stone — used with or without mortar — to modular concrete blocks that get stacked dry. The synthetic products are variously held together by pins, overhangs, or interlocking tongues and grooves, which makes them easier to assemble. While their colors and shapes approximate the look of quarried stone, the elements do have a certain tell-tale regularity. Hence, for die-hard traditionalists, only real rock will do.

Whatever your preference, the first step is the same: Evaluate the location. Walls will fail if they aren't built on stable land. "The lawn settles, especially in a new building," notes Robert Bowers, manager of engineering support for Risi Stone Systems, the segmental-retaining-wall division of Rothbury International, Inc., in Thornhill, Ont., Canada. "Also, you need to find out where trenches were dug." A consultation with an engineer is a smart idea, particularly if the site has steep

slopes or drainage problems. Ask about local housing codes, too; in much of the United States, an engineer's report is mandatory before the construction of any wall over several feet.

The next step is plotting the wall's exact dimensions, which will determine how much material you need. "The height is the most important thing," says Roger Larson, U.S. sales manager for Westcon Pavers & Retaining Walls, a British Columbia company. (The cold Canadian climate seems to be an ideal environment for testing synthetics.)

The taller the wall, the deeper it should be. With precast blocks, the depth is a function of the style that's chosen. For example, the smallest Westcon model — which costs about \$3 a block, or \$9 per square foot of face — has an 8-x-4-in. face and a depth of 8 in., suitable for a wall that rises about 2-1/2 ft. Bigger walls call for bigger blocks. But remember that what goes up must first be delivered. If building a wall behind a townhouse, make sure the blocks will fit through the entrance. Suppliers can help you calculate how many pieces to buy. For a rough, do-it-yourself estimate, multiply the wall's height and length to arrive at its square footage. Convert the figure to square inches. Then divide that figure by the total square inches of the individual block facing you plan to use. To complete your design, ask about corner pieces and copings.

Natural stone is sold by weight. Therefore, you'll need to know the wall's volume. Multiply the wall's height by its length and depth — one foot is



Champlain Stone's Corinthian Granite - stacked here without mortar - shows the variety inherent in natural materials.

sufficient for walls that do not exceed four feet in height, says the Purdys, N.Y.-based Building Stone Institute. Then multiply that figure by 12.5 pounds, the average weight of a cubic foot of stone. To avoid shortfalls, order a little extra. According to the institute's brochure, "How To Build A Stone Retaining Wall," the price will start at about \$100 a ton and can run much higher, depending on the kind of rock and where it is being delivered. Be wary of material that's priced at a great discount; it could be damaged.

Ground preparation varies with the material. Joe Friedrichs, staff engineer for Keystone Retaining Wall Systems, a division of Contech in Minneapolis, Minn., says his company's blocks are best laid on a "shallow leveling trench." That's true of other block systems, too. Read the instructions specific to your product. The basic practice is to strip grass and topsoil from the site until stable, non-loamy soil is exposed. That gets covered with a layer of crushed rock or gravel, which must be compacted and leveled. Once the first course of blocks is placed and leveled, subsequent layers can be stacked on top. Most synthetics have a built-in mechanism for battering, i.e., slanting the wall toward the soil it's retaining. Find out how your product operates. After each layer, backfill with gravel — for better drainage — and compact it.

Dry stone walls also rest on gravel-filled, shallow trenches; the width should accommodate the biggest rocks. The Building Stone Institute recommends sorting the wall elements by thickness and lining up the largest ones

end-to-end on the gravel, flat side down. Reserve the thinnest pieces to set on top. Don't be surprised if stones need adjustment to fit. Just remove them from the wall, and trim on the ground. Another Institute hint: You should be able to stand on the wall you're building. If a rock swivels, dress it or shore it up with a chip. While stacking and backfilling the wall, make sure to batter it; the wall should incline two inches toward the hillside for every foot of height. Fit stones snugly, overlapping them to interrupt horizontal and vertical joints. Periodically turning a long stone into the high ground will help secure the wall.

For mortared walls, the Building Stone Institute suggests digging a trench that goes below the frost line, about eighteen inches deep. Cover the excavation with two inches of crushed stone, then compact and level it. Follow this layer with several inches of stiff mortar mix. Finally, begin setting the stones, keeping the top and base perpendicular to the face. If neighboring stones are not at the same height, leave one at least an inch higher so a small rock can be wedged into the space. Trowel the joints and wipe surplus mortar off the stone. Hardened mortar can be removed from all rock, except marble and limestone, with a solution of one part muriatic acid to ten parts water.



This wall was built using Risi Stone System's modular blocks. The style is Roman Pisa Granite.

LANDSCAPE ARCHAEOLOGY

AND THE WATER WORKS OF PROSPECT PARK

Brooklyn's Prospect Park is often cited as the finest work of Frederick Law Olmsted and Calvert Vaux. Their original creation relied upon a series of falls, streams, ponds, and pools, with a lake and small river tying together a sequence of pastoral vistas. But after a century of use, many of the water features had deteriorated - or disappeared altogether. Here's the story of how the original magic is being recaptured.

by Keith Davitt

n employee of the Prospect Park Alliance ran into their architectural offices one afternoon saying, I've seen a picture somewhere around here . . .' and began rummaging through the archives. He didn't have to explain to everyone that he was on the verge of matching up some salient feature in the park with an heirloom image he remembered seeing, taken decades before by some doting fiancee or proud papa. Excitement rippled through the room with the realization that perhaps, in a few moments, another area of the park could be brought into the long and arduous process of restoration with historical accuracy. He found the photograph — it showed a rush of water through a narrow stone channel, cas-

This 19th-century map shows the original contours of the Olmsted and Vaux park, including the Headwaters (indicated with arrowhead), which is the water source for all of the streams, waterfalls, ponds, and lakes in the park. However, because the scale of the most detailed extant historic Park plan drawings was 1 inch to 200 feet, quality reconstruction of the picturesque features Olmsted and Vaux had built into the landscape was impossible from the plans alone.

cading into a stone-lined stream and through an arched bridge below. It was a beautiful scene, one of the more-magical features of the water works in Prospect Park — except that it no longer existed and had baffled everyone as to where it might have been. Pointing to the photo he announced, "I was just here. I know where this is." Weeks later - after carefully scratching through six feet of sediment — the granite vault bridge (the top boulders of which had triggered

the memory of that photograph) emerged in all its original beauty, keystones still intact. This and episodes like this characterize the restoration of Prospect Park and its waterworks in Brook-

The Alliance's Landscape Architect, Christian Zimmerman calls it Landscape Archaeology — an apt term considering the methods by which the Alliance carries out its multi-million-

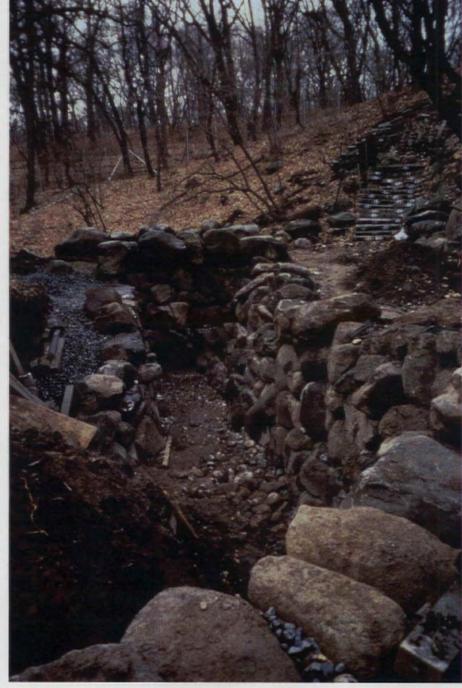
continued on page 89



Where it all begins: All water for the water features in Prospect Park originates from the Headwaters, shown at the right in an historic 19th-century photo. The restored and replanted Headwaters is shown above. In Olmsted & Vaux's original scheme, the Headwaters was supplied solely from wells and storm runoff; now it is supplemented with city water as needed.







dollar mandate to restore the Park and its water works in the spirit and — as much as possible — to the letter of the original wonder created by Frederick Olmsted and Calvert Vaux.

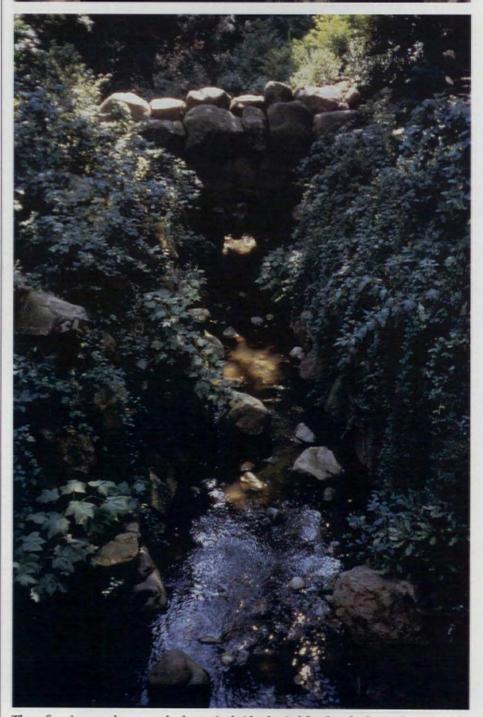
As a social engineer, Olmsted intended Prospect Park to be a place for the average family to get away from the harsh city life and enter into a world rich in idyllic, pastoral and cultural experiences. He and architect Vaux created large expanses of grassy rolling planes, paved walks along tree-lined avenues, paths through woods, Rustic Shelters, a Picnic House, an outdoor Concert Hall, a Boat House and so much more.

At the heart of this urban wonder, uniting area to area and perhaps the most attractive attribute of all, they built falls, streams, ponds, pools, a lake, and a small river, all designed to offer an astonishing array of sensory delights and aesthetic pleasures. They designed the system to be gravity fed — not dependent on mechanical power. They built the head waters in the area of the higher elevations and the largest lake at the lowest. Working with the existing topography they accentuated the hollows and high points and carved out the ponds, streams, river and pools between. Water was provided by a well and by miles of French drains laid in from surrounding street storm drains to nourish the system with rainwater at all points. To make it all watertight, they lined every portion of the system with raw brick clay several feet thick. To create a natural look and feel they hauled in and adeptly set tens of thousands of tons of boulders and river rock.

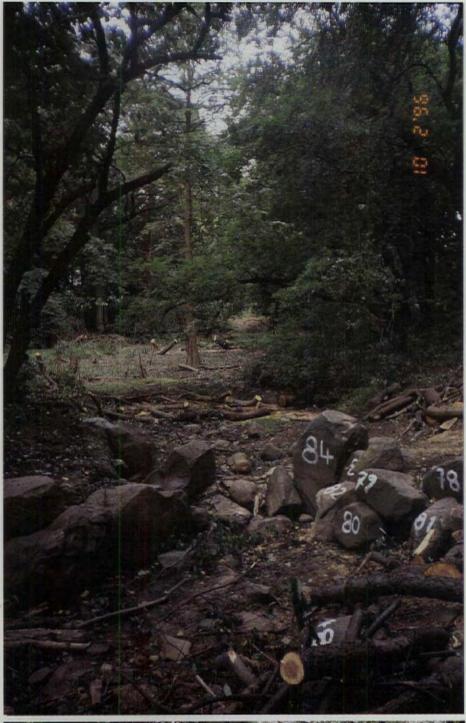
The place was a marvel. People by the hundreds sauntered through the park in their Sunday best, picnicked by the lily pool, paddled in the lake, fished,

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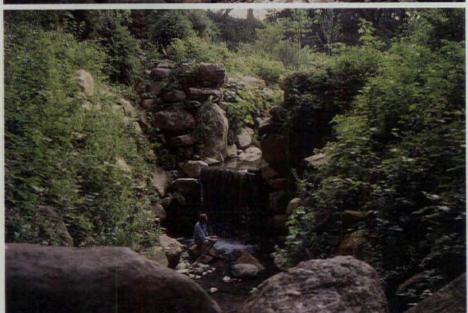




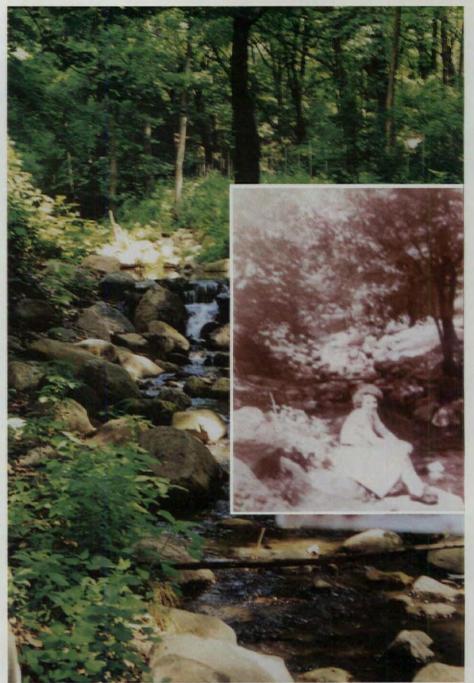
These four images show a vaulted, granite bridge buried for decades beneath six feet of sediment. The top stones (upper-left photo) remained above ground and triggered a memory in an Alliance employee of a historic photo showing a bridge containing these stones. The lower-left image shows the original bridge and stream walls after careful excavation. Note the quality of the mortarless stone work and the placement of the keystone. The last image shows the completed restoration work with plantings in place.







These three images show where the stream silted, over burying the waterfall and stream that flowed under the vaulted bridge (see images above). The stone numbered 84 in the left image is the same stone behind the head and torso of the Alliance employee in the center photo. The bottom image shows the reconstructed waterfall after planting. The planting (all native species) is crucial to the success of the project; the plants help bind the soil and deter undesirable foot traffic.



This old family photo (inset) made it possible to restore this portion of the stream to its original, carefully constructed character. Because the existing historic plans of the park did not reveal this level of detail, quality restoration required an all-out search for every possible historic photo and postcard that could show landscaping details.

listened to music, danced, played, and fully enjoyed the experiences Olmsted and Vaux created for their living pleasure.

The Ravages Of Time On An Idyllic Fantasy

That was 130 years ago. Time, use, abuse and neglect, the changing of fashions and the decisions of other men on top of those made by Olmsted and Vaux have, like a brush charged with muddy colors smeared across a gorgeous canvas, not so much destroyed as buried the brilliance that once shown so brightly.

Ponds grew thick and shorelines shrank from fallen debris, sediment and castoff refuse. Roots of water grasses cracked through pond bottoms, silt pushed streams from their beds and made marshes where water once flowed; erosion deposited mounds of soil atop beautiful bridges. Paths were stripped of their graceful curves and forced to follow straight lines, the very intent of the park was assaulted, upkeep was lessened, sub-support systems abandoned. Flora died. Fauna left.

What was once one of the most beautiful habitats available to any urban citizen in the U.S. and a haven for wildlife became barren in some places, in others choked and clogged, and everywhere the original beauty of the work was buried in decay and overhung with an atmosphere of rot.

The Plan To Rescue An Urban Treasure

The Prospect Park Alliance was formed in 1987 for the purpose of not only arresting the slow destruction of the park, but also restoring its long-lost luster. In 1990, the Alliance jump-started a flagging plan to rebuild the park and its water works. The mission was to recreate the park in the spirit and — as much as possible — to the exact plan of Olmsted and Vaux's original creation. Quite an undertaking, given the enormity of the tasks involved and the scanty data to go by.

The original design plans from 1874 and survey plans from 1888 and 1935 showed the footprint of the water works, and from those it was possible to see where a stream had wandered, to what extent the ponds and lake, streams and river had been filled in, where open bodies of water had become marsh or were missing altogether. But the scale of these drawings was one inch to 200 ft. They showed virtually no detail — where a waterfall or a weir was located, for example, or the particular character of a given stretch of stream. And no elevation maps existed.

The Search For Photographs

This is where the photographs came in. It was quickly clear that plan drawings would not suffice. People working on the project needed to know, not only the original intent of the creators, why and how they did what they did, but what it looked like when finished. To this end the Alliance people scoured archives such as those of the Library of Congress in Washington and the Olmsted

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Buyer's Guide for







Landscapes, Streetscapes & Public Parks

n the 129 pages that comprise this Landscapes section, you'll find detailed information on 222 suppliers of products and services for the creation of traditionally styled Landscapes, Streetscapes, and Public Parks. In this, our 7th annual report on this fast-changing area, the Editors have compiled the largest Buyer's Guide ever assembled for builders and designers of traditional landscapes. This Buyer's Guide is divided into 4 major sections: (1) ALPHABETICAL PRODUCT INDEX, pp. 91-100, in which the products and services of the 222 listed companies are broken down into 99 product categories; (2) SUPPLIER SOURCELIST, pp. 102-110, which contains a capsule description and complete contact information for each company; (3) PHOTO PORTFOLIO, pp. 112-126, which provides a visual sampling of the incredible array of landscape products available to today's designer; (4) RELATED PRODUCT ADVERTISING, which runs throughout these 129 pages. You'll find that this Buyer's Guide is an amazing and comprehensive survey of the world of landscape products today.















AERATORS, POND

(See also the Water Features SourceList on pp. 166-170)

Master Mark Plastics Nelson Landscape Design & Nursery

ARBORS

Aardvark Antiques Artist in Iron Bamboo & Rattan Works, Inc. Bamboo Fencer Bow House/BowBends Bufftech Copper Gardens Dalton Pavilions, Inc. DeAngelis Iron Work Fine Architectural Metalsmiths Island Post Cap Lake Shore Specialties Mel Northey Co. Milestone Architectural Ornamentation Mills & Co. Sycamore Creek Sitecraft, Inc. Walpole Woodworkers Wiemann Ironworks

AWNINGS

CopperCraft, Inc. Historical Arts & Casting, Inc. Ornamental Metal Institute of N.Y. Safari Thatch & Bamboo Vulcan Supply Corp.

BALUSTRADE S

(See also the Cast Balustrades SourceList on pp. 161-162)

A&M Victorian Decorations, Inc.
Architectural Facades Unlimited
Architectural Iron Designs, Inc.
Architectural Products by Outwater
C&G Italian Design for the Home & Garden
Cantera Especial
Carved Stone International
Classic Architectural Specialties
Concrete Designs Inc.
DMS Studios
Dura Art Stone
Fieldstone Center Inc.

Fine Architectural Metalsmiths Garden Art International Haddonstone (USA), Ltd. Island Post Cap Limestone Concept, Inc. MacQueen Sculpture & Fine Arts Mandish Research International MHI Group Milestone Architectural Ornamentation Nichols Bros. Stoneworks, Ltd. Rossato Giovanni Sculpture Sierra Architectural Cast Stone Stone Legends Stonex Cast Products Tennessee Fabricating Co. Texas Metal Industries, Inc. Towne House Restorations White Oak Forge, Ltd. Wiemann Ironworks

BANDSTANDS

Bow House/BowBends
DeAngelis Iron Work
Historical Arts & Casting, Inc.
Summerwood Products, Inc.
Vixen Hill Gazebos

BELLS & CARILLONS

Brosamer's Bells Elderhorst Bells, Inc. Electric Time Co. Verdin Co.

BENCHES, STREET

Aardvark Antiques Allen Architectural Metals, Inc. Am-Dia, Inc. Andy Thornton Architectural Antiques, Ltd. Architectural Facades Unlimited Architectural Iron Designs, Inc. Architectural Products by Outwater Authentic Provence Bamboo & Rattan Works, Inc. Bamboo Fencer Barlow Tyrie, Inc. BenchSmith Co. Blue Valley Industries, Inc. **BRP** Enterprises Cantera Especial Canterbury International Carved Stone International

Classic Architectural Specialties **Concrete Creations** Coppa Woodworking DeAngelis Iron Work DMS Studios Doty & Sons Concrete Products DuMor, Inc. Dura Art Stone Duraform Environmental Features, Inc. Florentine Craftsmen Garden Art International Goodwin International Great Lakes Art Studio Haddonstone (USA), Ltd. Herwig Lighting Historical Arts & Casting, Inc. Island Post Cap KenCoat Keystone Ridge Designs Limestone Concept, Inc. Little Tikes Commercial Play Systems Lykins-Signtek, Inc. Lynch & Sons, Inc. MacQueen Sculpture & Fine Arts Mandish Research International Mel Northey Co. Metalmorphosis Studios Nelson Landscape Design & Nursery Outdoor Lifestyle, Inc. Paragon Garden Art Petersen Mfg. Co. Quick Crete Products Corp. Robinson Iron Corp. Rossato Giovanni Sculpture Seibert & Rice, Inc. Sitecraft, Inc. Stone Forest Stone Legends Sylva Designs LLC Talladega Foundry Tennessee Fabricating Co. Towne House Restorations Vermont Outdoor Furniture Wausau Tile, Inc. Wiemann Ironworks Wood Factory

BIRDBATHS

Architectural Pottery
Carved Stone International
Colonial Flag & Specialties

For full contact information on these companies, consult the SourceList on pp. 102-110.

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Conant Custom Brass, Inc.
Florentine Craftsmen
Haddonstone (USA), Ltd.
Henri Studio, Inc.
K. Derums, LLC
Lynch & Sons, Inc.
Metalmorphosis Studios
Nelson Landscape Design & Nursery
Nichols Bros. Stoneworks, Ltd.
Rural Heritage

BOLLARDS & STANCHIONS

Allen Architectural Metals, Inc. Architectural Iron Designs, Inc. Blue Valley Industries, Inc. **BRP** Enterprises Casa de Cantera, House of Stone Classic Architectural Specialties Dahlhaus Lighting Inc. Dura Art Stone Dynamic Lighting, Inc. Environmental Features, Inc. Hanover Lantern Herwig Lighting Historical Arts & Casting, Inc. Ironsmith, Inc. Keystone Ridge Designs Kim Lighting King Luminaire/The Stress Crete Group Lynch & Sons, Inc. Mandish Research International Metalmorphosis Studios Newstamp Lighting Co. Primelite Mfg. Quick Crete Products Corp. Renaissance Companies Robinson Iron Corp. Sentry Electric Corporation Stone Legends Talladega Foundry Wausau Tile, Inc.

BRICK, SPECIALTY

Artcrete, Inc. CleForm Tool Co. Higgins Brick Pine Hall Brick Scott System, Inc. Wausau Tile, Inc.

BRIDGES, FOOT

(See also the Bridges SourceList on p. 134)
Architectural Products by Outwater
Continental Bridge
Lake Shore Specialties
Nelson Landscape Design & Nursery

BRIDGES, ORNAMENTAL

(See also the Bridges SourceList on p. 134)

Aardvark Antiques
Bow House/BowBends
Continental Bridge
Fine Architectural Metalsmiths
Island Post Cap
Lake Shore Specialties
Nelson Landscape Design & Nursery
Safari Thatch & Bamboo
Stone Forest
Wiemann Ironworks

CLOCKS, STREET

Am-Dia, Inc.
Canterbury International
Dahlhaus Lighting Inc.
Elderhorst Bells, Inc.
Electric Time Co.
Herwig Lighting
Leon Importing
National Clock & Light Co.
Renaissance Companies
Verdin Co.

CLOCKS, TOWER

Elderhorst Bells, Inc. Electric Time Co. Renaissance Companies Verdin Co.

COLORANTS, CONCRETE

Scofield Co., L.M.

COLUMNS & CAPITALS

(See also the Columns & Capitals SourceList on pp. 21-26)

A&M Victorian Decorations, Inc. Aardvark Antiques Architectural Facades Unlimited Architectural Pottery Architectural Products by Outwater Authentic Provence C&G Italian Design for the Home & Garden Cantera Especial Carved Stone International Casa de Cantera, House of Stone Chadsworth's 1.800.COLUMNS Classic Architectural Specialties Colonial Castings Inc. Concrete Designs Inc. DMS Studios Dura Art Stone Edon Corp. Elizabeth Street Fieldstone Center Inc. Garden Art International Haddonstone (USA), Ltd. Le Jardin Du Louvre Limestone Concept, Inc. Mandish Research International Milestone Architectural Ornamentation New England Garden Ornaments Old World Stone Ltd. Rossato Giovanni Sculpture

COMPUTER SOFTWARE, LANDSCAPE

Eagle Point Software/LANDCADD

Sierra Architectural Cast Stone

Stone Legends

Wood Factory

Talladega Foundry

Vintage Woodworks

Tennessee Fabricating Co.

Towne House Restorations

CONSERVATORIES & SUNROOMS

City Visions / Heritage Garden Houses
Classic Conservatories
Colebrook Conservatories
Four Seasons Sunrooms
Glass House
Oak Leaf Conservatories
Private Garden Greenhouse Systems
Renaissance Conservatories
Sunbilt Solar Products
Tanglewood Conservatories, Ltd.
Ward Greenhouses

COPING

A&M Victorian Decorations, Inc.
Cantera Especial
Champlain Stone, Ltd.
Dura Art Stone
Goodwin International
Le Jardin Du Louvre
Limestone Concept, Inc.
Milestone Architectural Ornamentation
Mortex Mfg. Co.
New England Garden Ornaments
O'Brien Stoneworks
Stone Legends
Stonex Cast Products
Wausau Tile, Inc.

CURBING

Cantera Especial Champlain Stone, Ltd. O'Brien Stoneworks Sierra Architectural Cast Stone Stonex Cast Products

EDGING, PATH & LAWN

Artcrete, Inc.
Bamboo & Rattan Works, Inc.
Bamboo Fencer
Champlain Stone, Ltd.
Haddonstone (USA), Ltd.
Island Post Cap
Little Tikes Commercial Play Systems
Master Mark Plastics
MHJ Group
Milestone Architectural Ornamentation
Nelson Landscape Design & Nursery
O'Brien Stoneworks
PAVE TECH, Inc.

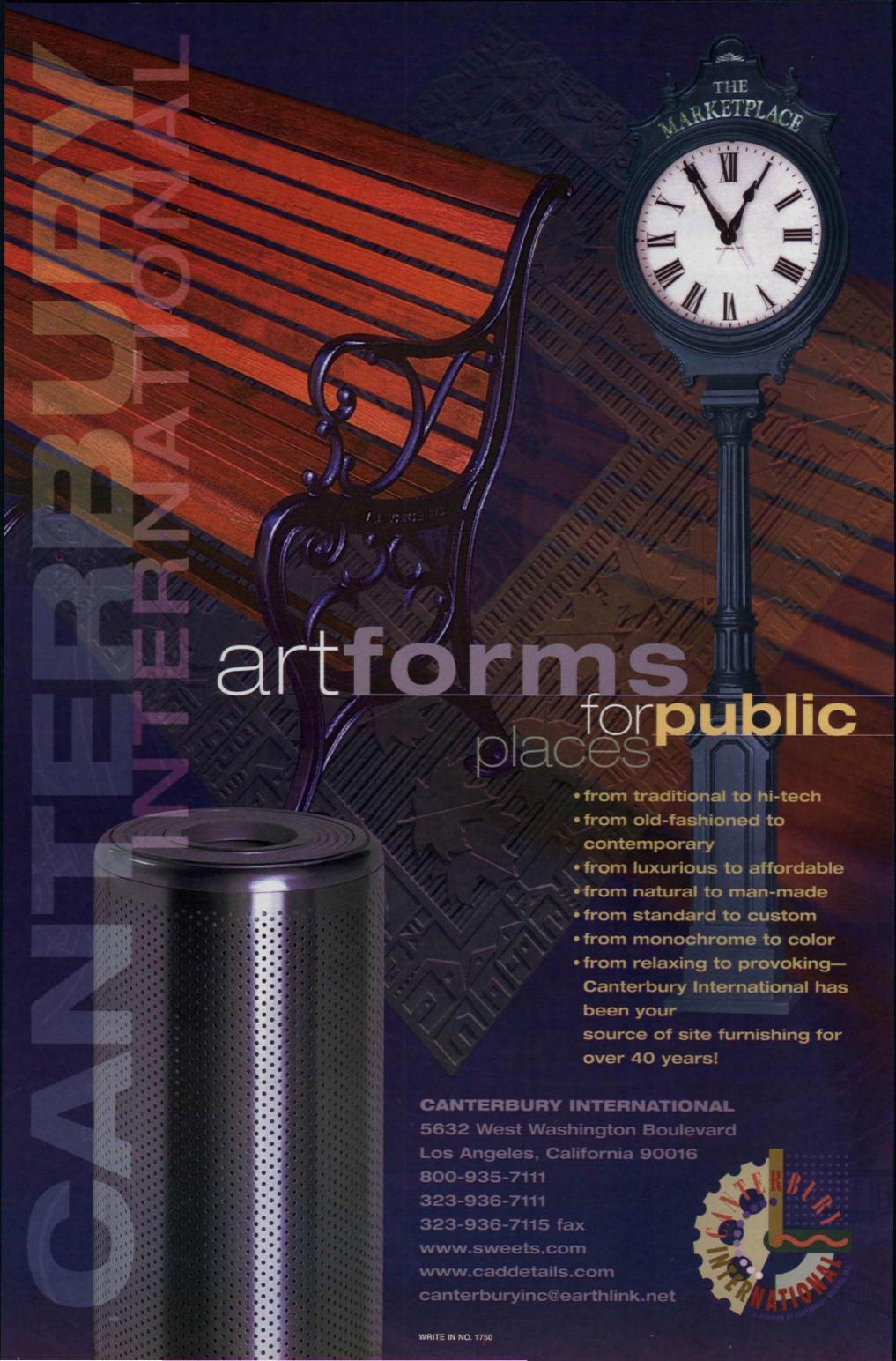
FENCING

(See also the Fences & Gates SourceList on pp. 146-152)

Aardvark Antiques Allen Architectural Metals, Inc. Am-Dia, Inc. Architectural Products by Outwater Artist in Iron Bamboo & Rattan Works, Inc. Bamboo Fencer Boston Turning Works Bufftech Carved Stone International Classic Architectural Specialties Colonial Castings Inc. DeAngelis Iron Work Fine Architectural Metalsmiths Historical Arts & Casting, Inc. Island Post Cap J. Graney Metal Design Jefferson Mack Metal, Inc. Keystone Ridge Designs Kroy Building Products, Inc. Lake Shore Specialties Leonard Metal Art Works Mandish Research International Master Mark Plastics Metalmorphosis Studios Nelson Landscape Design & Nursery Ornamental Steel Designs, Inc. Rapid Building Systems Robinson Iron Corp. Safari Thatch & Bamboo Schiff Architectural Detail Seibert & Rice, Inc. Stewart Iron Works Co. Talladega Foundry Texas Metal Industries, Inc. Walpole Woodworkers White Oak Forge, Ltd. Wiemann Ironworks

FINIALS

Aardvark Antiques Andy Thornton Architectural Antiques, Ltd. Architectural Iron Designs, Inc. Architectural Products by Outwater Authentic Provence Boston Turning Works Carved Stone International Conant Custom Brass, Inc. Copper House CopperCraft, Inc. Custom Home Accessories Eder Flagpole Co. Island Post Cap Mandish Research International MHJ Group Nichols Bros. Stoneworks, Ltd. Ornamental Metal Institute of N.Y. Rossato Giovanni Sculpture Schiff Architectural Detail Seibert & Rice, Inc. Stone Legends Sylva Designs LLC Tennessee Fabricating Co. Vulcan Supply Corp. Wiemann Ironworks



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FLAGPOLES

Broadway Banner & Flag Co.
Colonial Flag & Specialties
Eder Flagpole Co.
Flag Factory
HAPCO, Inc. / American Flagpole Co.
Hennessy House Wooden Flag Poles
Lykins-Signtek, Inc.

FLAGS & BANNERS

Broadway Banner & Flag Co. Flag Factory

FOUNTAIN CONTROLS

(See also the Water Features SourceList on pp. 166-170)

Nelson Landscape Design & Nursery

FOUNTAIN PUMPS

(See also the Water Features SourceList on pp. 166-170)

Florentine Craftsmen Nelson Landscape Design & Nursery

FOUNTAINS, DRINKING

(See also the Water Features SourceList on pp. 166-170)

Haws Corporation Petersen Mfg. Co.

FOUNTAINS, STREET & PUBLIC

(See also the Water Features SourceList on pp. 166-170)

Allen Architectural Metals, Inc.
Andy Thornton Architectural Antiques, Ltd.
Arcadia Ceramics
Architectural Iron Designs, Inc.
Authentic Provence
C&G Italian Design for the Home & Garden

Concrete Creations
Dura Art Stone
Florentine Craftsmen
Garden Art International

Henri Studio, Inc.
Le Jardin Du Louvre
Lee Knoll & Associates
Lynch & Sons, Inc.
MacQueen Sculpture & Fine Arts

Mandish Research International Milestone Architectural Ornamentation

Paragon Garden Art Reclamation Services, Ltd. Seibert & Rice, Inc. Talladega Foundry Texas Metal Industries, Inc.

FOUNTAINS, WALL

(See also the Water Features SourceList on pp. 166-170)

Authentic Provence Carved Stone International Florentine Craftsmen Nelson Landscape Design & Nursery

FURNITURE, PORCH

Authentic Provence
Coppa Woodworking
Decorative Outdoor Products
Florentine Craftsmen
Island Post Cap
K. Derums, LLC
Outdoor Lifestyle, Inc.

FURNITURE, STREETSCAPE

Aardvark Antiques Architectural Iron Designs, Inc. Blue Valley Industries, Inc. BRP Enterprises Columbia Equipment Co. Concrete Designs Inc. Coppa Woodworking **Decorative Outdoor Products** Doty & Sons Concrete Products DuMor, Inc. Elizabeth Street Environmental Features, Inc. Florentine Craftsmen Gaby's Shoppe Island Post Cap K. Derums, LLC KenCoat Keystone Ridge Designs Mel Northey Co. Sylva Designs LLC Texas Metal Industries, Inc. Vermont Outdoor Furniture Walpole Woodworkers Wausau Tile, Inc. Wiemann Ironworks

GATE HARDWARE

(See also the Fences & Gates SourceList on pp. 146-152)

Architectural Iron Designs, Inc.
Architectural Products by Outwater
Fine Architectural Metalsmiths
J. Graney Metal Design
Kayne & Son Custom Hardware
Tennessee Fabricating Co.
Wiemann Ironworks

GATE OPERATORS

(See also the Fences & Gates SourceList on pp. 146-152)

Tennessee Fabricating Co. Walpole Woodworkers Wiemann Ironworks

GATES, ORNAMENTAL

(See also the Fences & Gates SourceList on pp. 146-152)

Aardvark Antiques Am-Dia, Inc. Architectural Products by Outwater Bamboo & Rattan Works, Inc. Bamboo Fencer Carved Stone International Colonial Castings Inc. Copper Gardens Fine Architectural Metalsmiths Great Lakes Art Studio Island Post Cap Lake Shore Specialties Leonard Metal Art Works Metalmorphosis Studios Ornamental Steel Designs, Inc. Talladega Foundry Texas Metal Industries, Inc. Walpole Woodworkers White Oak Forge, Ltd. Wiemann Ironworks

GAZEBOS

A&M Victorian Decorations, Inc. Architectural Facades Unlimited Bamboo & Rattan Works, Inc. Bamboo Fencer Bow House/BowBends City Visions / Heritage Garden Houses Classic Architectural Specialties Cumberland Woodcraft Co. Dalton Pavilions, Inc. Florentine Craftsmen Garden Art International Island Post Cap Kroy Building Products, Inc. Lake Shore Specialties Leisure Woods, Inc. Little Tikes Commercial Play Systems Milestone Architectural Ornamentation Nelson Landscape Design & Nursery Red Suspenders Timber Frames Safari Thatch & Bamboo Stone Legends

Summerwood Products, Inc. Towne House Restorations Vintage Woodworks Vixen Hill Gazebos Walpole Woodworkers Wiemann Ironworks

GREENHOUSES

Colebrook Conservatories
Four Seasons Sunrooms
Glass House
Imperial Florian Design Cent.
Private Garden Greenhouse Systems
Renaissance Conservatories
Sunbilt Solar Products
Under Glass Mfg. Corp.
Ward Greenhouses

KIOSKS, INFORMATION BOOTHS, ETC.

Bow House/BowBends
City Visions / Heritage Garden Houses
Columbia Equipment Co.
Red Suspenders Timber Frames
Robinson Iron Corp.
Safari Thatch & Bamboo
Summerwood Products, Inc.
Vixen Hill Gazebos

LANDSCAPE & GARDEN DESIGN

Davitt Garden Design Nelson Landscape Design & Nursery

LANTERNS & POST LIGHTS

(See also the Landscape & Street Lighting SourceList on pp. 178-182)

Aardvark Antiques Architectural Iron Designs, Inc. Carved Stone International Charleston Lighting & Manufacturing, Inc. Copper House Copper Sculptures Custom Home Accessories Dahlhaus Lighting Inc. Fine Architectural Metalsmiths Hanover Lantern Island Post Cap Kim Lighting King Luminaire/The Stress Crete Group Loran, Inc. Metalmorphosis Studios Newstamp Lighting Co. Primelite Mfg. Renaissance Companies Schiff Architectural Detail Stone Forest Stone Manor Lighting Tennessee Fabricating Co. Texas Metal Industries, Inc. Walpole Woodworkers Wiemann Ironworks

LATTICE

Bamboo & Rattan Works, Inc. Bamboo Fencer Bufftech Island Post Cap Master Mark Plastics

LIGHTING, LANDSCAPE

(See also the Landscape & Street Lighting SourceList on pp. 178-182) Architectural Iron Designs, Inc.

Architectural Products by Outwater
Artist in Iron
Carved Stone International
Classic Architectural Specialties
Conant Custom Brass, Inc.
Copper House
Dahlhaus Lighting Inc.
Fine Architectural Metalsmiths
Hanover Lantern
HAPCO, Inc. / American Flagpole Co.
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Tiffany Landscape Lighting
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(See also the Landscape & Street Lighting SourceList on pp. 178-182)

Allen Architectural Metals, Inc. Am-Dia, Inc. Brandon Industries, Inc. Copper Sculptures Dahlhaus Lighting Inc. Dynamic Lighting, Inc. Hanover Lantern HAPCO, Inc. / American Flagpole Co. Herwig Lighting Historical Arts & Casting, Inc. Keystone Ridge Designs Kim Lighting King Luminaire/The Stress Crete Group Lykins-Signtek, Inc. Mel Northey Co. Newstamp Lighting Co. Primelite Mfg. Robinson Iron Corp. Sentry Electric Corporation

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Talladega Foundry

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Classic Architectural Specialties Henri Studio, Inc. Loran, Inc. Nelson Landscape Design & Nursery

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Brandon Industries, Inc.
Dynamic Lighting, Inc.
Hanover Lantern
Herwig Lighting
King Luminaire/The Stress Crete Group
Loran, Inc.
Mel Northey Co.
Robinson Iron Corp.
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Stewart Iron Works Co.
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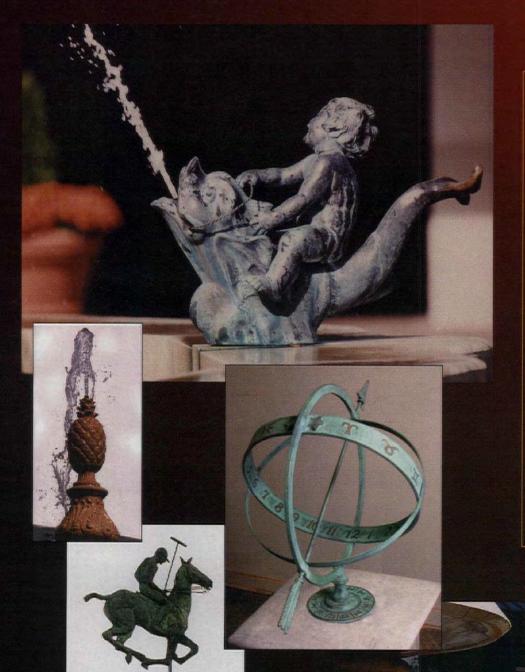
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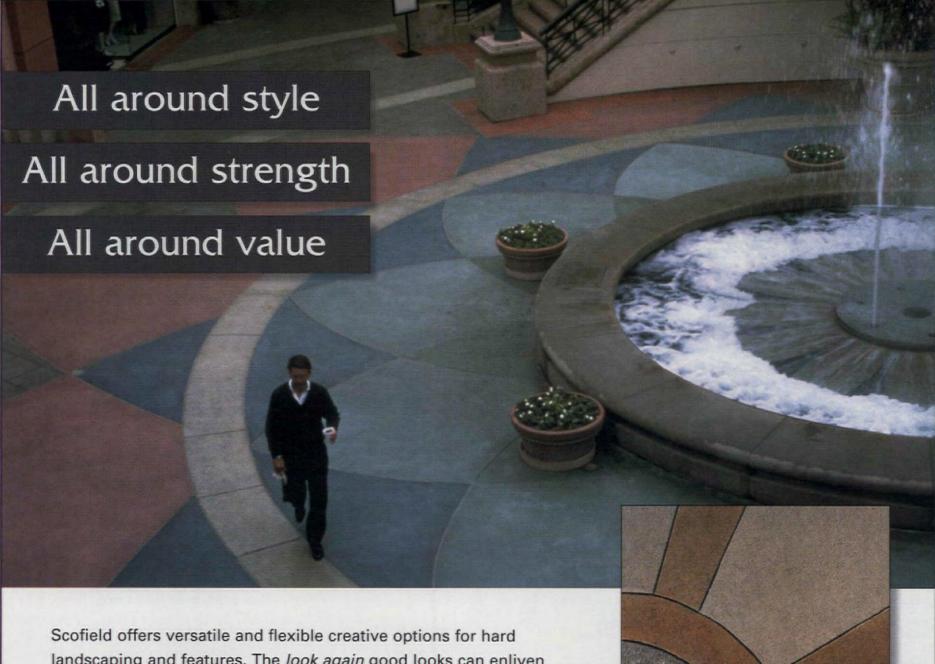
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Brosamer's Bells 517-592-9030; Fax: 517-592-4511 www.brosamersbells.com Brooklyn, MI 49230	This company, the country's largest dealer of pre-owned bells (over 40,000 lbs. in stock), buys, sells, and restores cast-bronze bells of all types, from yard, fire engine, and railroad bells, to enormous church and tower bells.	Free Write in No. 7130
BRP Enterprises 888-438-5311; Fax: 888-438-5312 www.brpcorp.com Lincoln, NE 68510	Designer and manufacturer of site furnishings and other amenities, including bike racks, modular seating systems, benches, tables, chairs, umbrellas, litter receptacles, ash urns, planters, bollards, and handrail & fencing systems.	Free
Bubba's Anvil Works 423-334-3233; Fax: 423-334-4620 P.O. Box 392 Decatur, TN 37322	Custom metalwork in iron, chrome, stainless steel, brass, copper, bronze, and old, distressed iron. Hand-forged metal art, fabricating, antique restorations, and custom pieces, all created to spec. Custom design services, finishes.	Free Write in No. 3024
Bufftech — Div. of CertainTeed 800-333-0569; Fax: 716-685-1172 www.bufftech.com Buffalo, NY 14225	Vinyl picket fences and other railing systems, all having several baluster/spindles styles available, and many with traditional finials and posts. Railing systems conform to BOCA building codes.	Free Write in No. 66
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808
Cammco Everlast Timbers 877-922-6626; Fax: 256-832-0169 2510 Electronics Drive Anniston, AL 36207	EverLast Timbers are made from 100% recycled products and are impervious to rot, insects, warping, and water damage. Ideal for sea walls, retaining walls, and landscape uses.	Free Write in No. 2587
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31
Canterbury International 800-935-7111; Fax: 323-936-7115 www.canterburyintl.com Los Angeles, CA 90016	Major design/manufacturer of architectural site furnishings, clocks, sculpture, and custom products for over 40 years.	Free Write in No. 1750
Carved Stone International 858-720-0276; Fax: 858-720-0272 www.carvedstoneint.com Solana Beach, CA 92075	Designer, manufacturer, importer, and wholesaler of interior and exterior architectural elements in natural hand-carved Indian sandstone.	Free Write in No. 2588
Casa de Cantera, House of Stone 800-304-6135; Fax: 805-382-1057 3600 South Harbor, Suite 114 Oxnard, CA 93035	Own and operate a stone factory specializing in custom fountains, columns, moldings, fireplace mantels, and more; installation and design.	Free Write in No. 1278
Chadsworth's 1.800.Columns 800-486-2118; Fax: 910-763-3191 www.columns.com Historic Wilmington, NC 28401	Custom and stock columns, pillars, pilasters, and posts; capitals; interior and exterior; plain or fluted; round, square, belley, octagonal; all styles and sizes; wood, PolyStone, fiberglass; jobsite delivery; worldwide shipping.	Free; Write in No. 1580 for PolyStone, No. 180 for Wood
Chaenomeles, Inc. 214-249-6785; Fax: 214-826-1693 P.O. Box 7011 Dallas, TX 75209	Decorative cast-bronze flagstaff holders; patented flag-display system. Large hand-crafted copper mailboxes for wall or post mounting. Custom mailbox stands and torch-cut custom house numbers.	Free; Write in No. 1360 for Mailboxes & No. 1361 for Flagstaff Holder
Champlain Stone, Ltd. 518-623-2902; Fax: 518-623-3088 P.O. Box 650 Warrensburg, NY 12885	Guillotined and hand-split granite, quartzitic sandstone, and limestone for building veneer, wall stone, flagging, step slabs, and landscape boulders.	Free Write in No. 4270
Charleston Lighting & Mfg., Inc. 800-661-9224; Fax: 334-473-0306 www.charlestonlighting.com Mobile, AL 36607	Handmade copper lanterns, gas and electric. Also, cast-aluminum street-lighting standards and mailbox standards.	Free Write in No. 772
Chimney Pot Shoppe 724-345-3601; Fax: 724-345-8243 www.chimneypot.net Avella, PA 15312	Extensive inventory of new and antique chimney pots used as planters. Quality, hand-crafted stock imported from England includes a wide array of colors, sizes, and styles. Will ship anywhere in North America.	Free Write in No. 410
City Visions/Heritage Garden Houses 517-372-3385; Fax: 517-482-7304 311 Seymour St. Lansing, MI 48933	Elegant, functional component buildings in 16 meticulous historic styles, to be used as summer houses, tool sheds, gazebos, and conservatories; also, pergolas and colonnades. Kits can be assembled within two days.	Free Write in No. 9030



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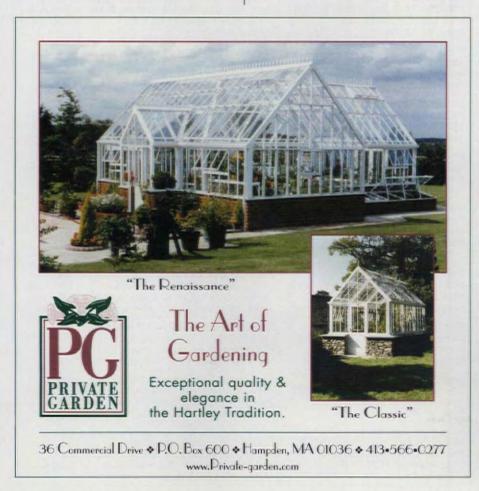
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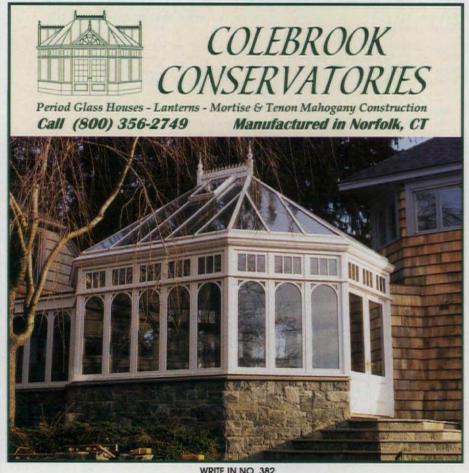
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Classic Architectural Specialties 800-662-1221; Fax: 972-552-9054 www.casdesign.com Forney, TX 75126	Full-service supplier of architectural components, furnishing complete packages for period commercial exteriors, from millwork to street lighting.	Free Write in No. 4200
Classic Conservatories 800-435-1188; Fax: 908-686-4208 www.classicconservatories Union, NJ 07083	Traditionally styled conservatories and sunrooms, manufactured in Europe, shipped straight to your site, and installed by seasoned professionals; protected by an extensive guarantee.	Free
Classic Design Studio 208-336-2769; Fax: 208-344-8285 412 South Sixth Street Boise, ID 83702	Maker of porcelain-enamel plaques, signs, and displays, either designed by the staff or following your custom design.	Free Write in No. 179
CleForm Tool Co. 800-253-3676; Fax: 888-253-3676 www.cleform.com Saint Joseph, MO 64503	Landscape rakes, shovels, hoes, forks, scoops, striking tools, picks, and more from this tool company.	Free
Cleveland Quarries 800-248-0250; Fax: 440-986-4531 www.amst.com Amherst, OH 44001	From raw block, American Stone/Cleveland Quarries process both Berea & English Red Sandstone into slab, split, or diamond-finished products. Sandstone is squared, shaped, finished, & carved to detailed specs by skilled craftsmen.	Free Write in No. 3104
Colebrook Conservatories 860-379-7529; Fax: 860-738-0429 152 Stillman Hill Road Winsted, CT 06098	Designers and fabricators of traditional glass buildings, roof lanterns, window walls, doors, and skylights using commercial-quality CBA class insulated glass and mahogany construction; finely detailed framing, sash, and trim.	Free Write in No. 382
Concrete Creations 888-299-8273; Fax: 818-708-2110 6428 Yarmouth Ave. Reseda, CA 91335	Manufactures custom concrete urns and planters, handmade and reinforced with iron bars; giant urns a specialty. Also, trash receptacles, benches, fountains, ash urns, counter tops, etc., in a variety of styles.	Free Write in No. 2608
Colonial Castings Inc. 305-688-8901; Fax: 305-688-8932 15301 N.W. 34th Ave. Miami, FL 33054	Extensive range of ornamental architectural panels, load-bearing columns, newels, fences, gates, outdoor lamps, mailboxes, and furniture.	Free Write in No 4820
Colonial Flag & Specialties 800-782-0500; Fax: 801-562-1177 9474 South 560 West Sandy, UT 84070	Full, swell-bodied, and silhouette weathervanes in sheet copper, cast aluminum, and cast iron. Also, birdbaths, sundials, cupolas, flagpoles, and banners.	Free Write in No 2589
Columbia Equipment Co. 800-742-1297; Fax: 718-526-4110 www.columbiaequipment.com Jamaica, NY 11433	Manufactures prefabricated aluminum passenger shelters, kiosks, & related street furniture; wide variety of standard and custom designs, including "streetscape improvement" models.	Free Write in No 3105
Conant Custom Brass, Inc. 800-832-4482; Fax: 802-864-5914 www.conantcustombrass.com Burlington, VT 05401	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Also, pendants, chandeliers, and sconces in many finishes and styles; custom weathervanes and finials.	Free Write in No. 620 for Lighting, No. 5050 for Metalwork
Concrete Designs Inc. 800-279-2278; Fax: 520-624-3420 3650 S. Broadmont Dr. Tucson, AZ 85713	Manufactures over 1,600 precast-concrete and GFRC items, including moldings, door and window surrounds, balustrades, columns, mantels, and site furnishings. Also, GFRC details; custom work available.	Free Write in No. 5190
Continental Bridge 800-328-2047; Fax: 320-852-7067 www.continentalbridge.com Alexandria, MN 56308	Manufacturer of custom-engineered, prefabricated, all-hardwood bridges for ornamental or industrial use.	Free Write in No 689
Coppa Woodworking 310-548-4142; Fax: 310-548-6740 www.coppawoodworking.com San Pedro, CA 90731	Wood screen doors in 125 styles; any size; also, arch-top doors and window screens. Species include Douglas fir, mahogany, and oak. Also, Adirondack-furniture kits.	Free Write in No 9600
Copper Gardens 530-432-9598; Fax: 530-432-9599 P.O. Box 341 Rough and Ready, CA 95975	All gates, railings, arbors, and other elements are made of copper and copper-based alloys; offer their own designs or accept commissions on any theme.	Free Write in No 6770
Copper House 800-281-9798; Fax: 603-736-4921 www.thecopperhouse.com Epsom, NH 03234	Hand-crafted copper and brass lighting, standard and custom, for interior and exterior. Also, weathervanes made of copper; finials custom-made to spec. All products made using only solid copper and brass, no plated metal.	\$4, de- ductible from order Call for more info
Copper Sculptures 800-235-6725; Fax: 601-992-7099 5230 Hwy 25 Brandon, MS 39042	Company offers finely hand-crafted copper lanterns, mailboxes, posts, and metal furniture. AGA, CSA certified.	Free Write in No 300
CopperCraft, Inc. 800-486-2723; Fax: 817-490-9661 www.coppercraft.com Keller, TX 76248	Firm's traditional metalworking skills and mod- ern technology provide high-quality architect- ural sheetmetal: spires, finials, weathervanes, dormers, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, and more.	Free Write in No 1490
Country Flair Tile 860-927-3178; Fax: 860-927-4978 www.homeandgardendecor.com Kent, CT 06757	Outdoor tile, fountains, brass spigots, mosaic tables, hand-carved millstones. An antique French collection of reclaimed terra cotta and limestone and newly arrived hand-carved stone troughs and sinks.	Free Write in No 3081
Cumberland Woodcraft Co. 800-367-1884; Fax: 717-243-6502 www.cumberlandwoodcraft.com Carlisle, PA 17013	Architectural & period millwork, fixtures, & decorative treatments. Commercial projects from ornate bars to libraries & entertainment centers. Also, carvings, carved signs, appliques, fretwork, grilles, wood ceilings, screen doors.	Free Write in No 1310
Custom Home Accessories 800-265-0041; Fax: 916-961-9707 www.custom-mailboxes.com Fair Oaks, CA 95628	Source for mailboxes (home and commercial); weathervanes of copper, brass, or cast aluminum in standard and custom styles. Also custom roof caps, spires, and finials; prefabricated copper- and aluminum-roofed cupolas.	Free Write in No 527
Dahlhaus Lighting Inc. 718-599-5413; Fax: Same as phone www.dahlhaus-lighting.com Brooklyn, NY 11211	Vintage lighting for residential, commercial, and civic sites; street lamps & lanterns; also bollards, fountains, ornaments, and mailboxes that once graced Europe's cities, towns, and estates.	Free Write in No 2767

COMPANY	SPECIALTY	Literature
Dalton Pavilions, Inc. 800-532-5866; Fax: 215-721-1501 www.daltonpavilions.com Telford, PA 18969	Pre-engineered pavilions and gazebos constructed of Western red cedar and prefabricated for ease of installation. Ships throughout the US and internationally. Color product portfolio available upon request.	Free Write in No. 330
Davitt Garden Design 718-857-1787; Fax: 718-857-1663 www.gardenviews.com Brooklyn, NY 11217	Complete landscape design services; landscape implementation; project management.	Free
DeAngelis Iron Work 888-676-4766; Fax: 508-238-7757 www.deangelisiron.com South Easton, MA 02375	Custom full-service facility for the design, fabrication, and installation of all types of ornamental metalwork, including cast iron, wrought iron, bronze, brass, aluminum, stainless steel.	Free Write in No. 1023
Decorative Outdoor Products 877-434-7730; Fax: Same as phone www.decorativeoutdoorproducts.com Nantucket, MA 02554	Source of decorative outdoor products.	Free Write in No. 2554
Dixie Cut Stone & Marble, Inc. 800-968-8282; Fax: 517-777-9700 www.dixiestone.com Bridgeport, MI 48722	Firm has carved natural stone since 1960. Custom limestone fireplaces; also, carvings, door and window surrounds, balusters, columns, and signs; stone includes Indiana buff limestone, Texas cream, and Mankato gold.	Free Write in No. 279
DMS Studios 718-937-5648; Fax: 718-937-2609 www.dms-studios.com Long Island City, NY 11101	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 262
Doty & Sons Concrete Products 800-233-3907; Fax: 815-895-8035 www.dotyconcrete.com Sycamore, IL 60178	Manufactures a complete line of street furnishings: litter receptacles in over 34 styles, 17 bench styles, 55 sizes of planters, bollards, table sets and custom concrete products in exposed aggregate and light sandblast finish.	Free Write in No. 2090
DuMor, Inc. 800-598-4018; Fax: 717-436-9839 www.dumor.com Mifflintown, PA 17059	Leading manufacturer of high-quality site furnishings, offering a complete line of benches, tables, receptacles, & planters in metal, wood, or recycled plastic, for both indoor & outdoor. Custom design & manufacturing is available.	Free Write in No. 2180
Dura Art Stone 800-821-1120; Fax: 909-350-9632 www.duraartstone.com Fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations.	Free Write in No. 3082
Duraform 800-823-1121, Fax: 310-761-1646 1435 S. Santa Fe Ave. Compton, CA 90221	Company produces fiberglass furnishings and accessories for interiors and exteriors: planters, trash receptacles, ash urns, seating, custom moldings.	Free Write in No. 1840
Dynamic Lighting, Inc. 800-364-0098; Fax: 281-997-5441 www.dynamiclighting.com Pearland, TX 77581	Decorative cast-aluminum light poles and fixtures; H.I.D. compact fluorescent and incandescent light sources.	Free Write in No 904
Eagle Point Software/LANDCADD 319-556-8392; Fax: 319-556-5321 www.eaglepoint.com Dubuque, IA 52002	Complete spectrum of intergrated land planning CAD software. Solutions include digital terrain modelling, site planning, landscape design, and civil engineering.	Free Write in No 2573
Eder Flagpole Co. 800-558-6044; Fax: 414-764-1039 www.ederflag.com Oak Creek, WI 53154	Manufacturer and distributor of a wide selection of weathervanes and finials, stock and custom fabrication, in copper, aluminum, iron, and brass. Also, roof-mount flagpoles in aluminum, fiberglass, steel, and wood.	Free Write in No 4290
Edon Corp. 215-672-8050; Fax: 215-672-9014 www.edon.com Horsham, PA 19044	Decorative line of lightweight reinforced-polyes- ter-resin garden ornaments: animal sculptures, birdbaths, pedestals, planters, urns, wall foun- tains. Designs & manufactures FRP architectural ornament: columns, cornices, cupolas, domes.	Free Write in No 3117
Elderhorst Bells, Inc. 800-810-7892; Fax: 215-679-3692 www.elderhorstbells.com Palm, PA 18070	Manufacturer of tower clocks, street clocks, post clocks. Also, cast-bronze bells, carillons, chimes, moving-figure displays, and bell-tower equipment.	Free Write in No 2100
Electric Time Co. 508-359-4396; Fax: 508-359-4482 www.electrictime.com Medfield, MA 02052	Custom-built clocks, post clocks, clock faces, silhouette clocks, tower clocks, canister clocks, and metal-overlay clocks. Many traditional styles; custom sizing, styling, materials, finishes.	Free
Elizabeth Street 212-644-6969; Fax: 212-644-8090 1176 Second Ave. New York, NY 10021	Antique garden ornament; custom stonework; recreations of antique garden ornament in the same methods and materials as the originals.	Free Write in No 3001
Environmental Features, Inc. 248-478-2775; Fax: 248-476-5120 www.wwnet.com/~efi Northville, MI 48167	Architectural precast-concrete benches, planters, tables, outdoor furnishings, waste receptacles, tree grates, bollards, and other cast exterior elements. Custom work available.	Free Write in No 278
Envirospec, Inc. 716-689-8548; Fax: 716-689-7309 www.envirospecinc.com Buffalo, NY 14205	Manufacturer of the PAVE-EL Pedestal System, designed to elevate, level, and uniformly space paver stones, easily transforming a roof into a patio, terrace, balcony, walkway, plaza, podium, promenade, or just plain roof deck.	Free Write in No 3137
Fieldstone Center Inc. 800-633-6075; Fax: 770-483-9255 www.fieldstonecenter.com Conyers, GA 30012	Supplier of stone and masonry products: granite, bluestone, limestone, and slate, and cast-stone items such as balustrades, keystones, quoins, and columns. Custom orders accepted.	Free Write in No 2592
Fine Architectural Metalsmiths 845-651-7550; Fax: 845-651-7857 www.iceforge.com Chester, NY 10918	Hand-built signature lighting: entry lanterns, chandeliers, and sconces from award-winning studio. Period or fine custom styling in forged iron, coppers, and bronzes. Exotic patinations.	Free Write in No 2640
Flag Factory 704-283-2147; Fax: 704-289-6857 1400 Goldmine Road Monroe, NC 28110	Flags, banners, poles: American, school, foreign, corporate, festival, Main Street, streetscape. Attention-getting colors, durable for many seasons, economical. Manufacturing for 92 years.	Free Write in No 479
Florentine Craftsmen 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101	Garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Also, weathervanes. Custom work a specialty.	Free Call for more information





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Four Seasons Sunrooms 800-368-7732; Fax: 631-563-4010 www.four-seasons-sunrooms.com Holbrook, NY 11741	Wide variety of sunrooms, solariums, conservatories, patio rooms, and glass-and- screen enclosures; also, freestanding or lean-to low-cost hobby greenhouses; standard skylights.	Free Write in No. 910
Gaby's Shoppe 800-299-4229; Fax: 214-748-6644 www.gabys.com Dallas, TX 75207	Hand-crafted wrought-iron furniture, tables, chairs, chandeliers, floor and table lamps, drapery hardware, and balcony railing.	Free Write in No. 2520
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 2555
Gardenworks 530-694-2515; Fax: Same as phone www.gardenworkstopiary.com Markleeville, CA 96120	Designer and manufacturer of custom and commercial topiary frames, constructed of steel or stainless steel. Hand-wrought metal accents available in copper, brass, bronze, and lead; also, hand-shaped fiberglass and foam accents.	Free Write in No. 2769
Glass House 300-222-3065; Fax: 860-974-1173 50 Swedetown Road Comfret Center, CT 06259	Manufacturer of traditional wood-frame and insulated-glass conservatories, glass-roof systems, specialty skylights, and lantern roofs in various wood species. Ornamental metal features, copper-clad options, custom trim enhancements.	Free Write in No. 1870
Goodwin International 800-600-3200; Fax: 714-241-1874 www.goodwininternational.com Costa Mesa, CA 92626	Landscape and garden ornament from around the world: stone fountains, statues, and terra- cotta planters; GFRC planters, urns, benches, tables, and water features. Also, custom designs and finishes.	Free
Great Lakes Art Studio 312-226-6166; Fax: 312-275-0017 www.greatlakesartstudio.com Chicago, IL 60612	Landscape, architectural, and interior metalwork in contemporary and historical motifs; custom railings, gates, sculpture, and furniture in bronze, steel, aluminum, iron, and all architectural metals. Casting, patination, and more.	Free Call for more information
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	The firm's range of standard designs in reconstructed limestone offers architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Free Write in No. 4020
Hanover Lantern 717-632-6464; Fax: 717-632-5039 www.hanoverlantern.com Hanover, PA 17331	Design-manufacturers of cast-aluminum lighting fixtures, poles, bollards, mailboxes, and accessories for commercial, residential, and landscape lighting applications.	Free Write in No. 3440
HAPCO, Inc. / American Flagpole Co. 800-368-7171; Fax: 540-628-7707 www.hapco.com Abingdon, VA 24210	Aluminum poles for highway, parking lot, residential, and street lighting and traffic control. Also carries flagpoles. Complete line of decorative lamp posts.	Free Write in No. 4070
Haws Corporation 775-359-4712; Fax: 775-359-7424 http:www.hawsco.com Sparks, NV 89432	Leading manufacturer of outdoor and indoor drinking fountains and electric water coolers.	Free
Healy Brothers Foundry 800-626-3229; Fax: 401-765-7612 P.O. Box 4 Manville, RI 02838	Custom bronze plaques, signs, tablets; relief portraits, busts; line of National Register plaques; custom architectural components & details: hardware, grilles, ornament; modeling & patternmaking; patina to high-polish finishes.	Free Write in No. 5530
Hennessy House Wooden Flag Poles 800-285-2122; Fax: 530-862-0125 www.woodenflagpoles.com Sierra City, CA 96125	Hand-crafted, glue-laminated, old-style Douglas fir poles 15 to 40 ft. Authentic square to octagon to tapered round design. High vertical axial strength. Lifetime guarantee.	Free Write in No. 1180
Henri Studio, Inc. 847-526-5200; Fax: 847-526-6782 1250 Henri Drive Wauconda, IL 60084	Designer and manufacturer of cast-stone fountains, statuary, birdbaths, planters, and garden decor. Original designs, custom capabilities.	Free Write in No. 2630
Herwig Lighting 800-643-9523; Fax: 501-968-6422 www.herwig.com Russellville, AR 72811	High-quality, hand-crafted original designs since 1908. Cast-aluminum or -bronze, exterior residential, commercial, municipal lighting: wall brackets, pendants, pier- or post-lanterns. Street clocks, posts from 19 in. to 14 ft.	Free Write in No. 9130
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210
Imperial Florian Design Cent. 888-886-4527; Fax: 718-224-0700 www.greenhouserepairs.com Flushing, NY 11361	Supplier and installer of sunrooms and greenhouses throughout the tri-state area.	Free
Imperial Mailbox Systems 800-647-0777; Fax: 334-285-6635 3901 Norris Lane Millbrook, AL 36054	Maker of quality "rust-free" cast-aluminum mailboxes, street signs, and light poles.	Free Write in No. 586
Ironsmith, Inc. 800-338-4766; Fax: 760-776-5080 P.O. Box 10868 Palm Desert, CA 92255	Makes 15 patterns of cast-iron tree grates. Also, cast-iron bollards, steel tree guards, trash receptacles, drain grates, and trench grates in iron, aluminum, and bronze. Custom wrought-iron projects welcome.	Free Write in No. 9000
Island Post Cap 800-555-3694; Fax: Same as phone www.islandpostcap.com Montgomery, AL 36108	National distributor of redwood & cedar post caps also supplies cedar arbors, pergolas, gates, finials, and deck accessories, as well as casual teak furniture. Warehouses in CT, AL, and CA.	Free Write in No. 702
J. Graney Metal Design 413-528-6744; Fax: 413-528-6749 1920 North Main St. Sheffield, MA 01257	Forged metalwork in classical and contemporary designs in various metals; gold leaf, exotic finishes. Railings, gates, entryways, furniture, lighting; design and installation service; historical restoration.	Free Write in No. 4840
Janzer Corp. 609-656-9500; Fax: 609-656-9800 www.janzer.com Trenton, NJ 08638	Mailboxes of galvanized steel, aluminum, brass, and other materials. Also, porcelain signs; safety lights.	Free Write in No 46

COMPANY	SPECIALTY	Literature
Jefferson Mack Metal, Inc. 415-550-9328; Fax: 415-285-3365 www.mackmetal.com San Francisco, CA 94124	Hot-forged, hand-finished architectural metalwork: railings, grilles, gates, fences, sculpture, door hardware. Also, custom iron furniture, garden torches, chandeliers, more.	Free Write in No. 1079
JEH/Eagle Supply, Inc. 888-534-1800; Fax: 972-364-0554 www.eaglesupplygroup.com Addison, TX 75001	Exclusive distributors of Ludowici Roof Tile, Hilltop Vermont Slate, and North Country Black Slate. Large inventory of new & used tile and slate; over 1,000 squares of slate in stock; ready to ship. 32 offices nationwide.	Free Write in No. 801
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Kayne & Son Custom Hardware 828-667-8868; Fax: 828-665-8303 www.brwm.org/ kayneandsoncustomhardwareinc Candler, NC 28715	Custom hand-forged steel, cast-brass/bronze functional and dummy strap hinges, H and HL hinges, bolts, latches, pulls, locks, drapery rods and hooks, sash locks. Custom restoration, reproductions; various finishes.	Free Call for more information
KenCoat 888-KENCOAT; Fax: 270-259-9858 www.kencoat.com Leitchfield, KY 42754	Manufacturer of metal, plastisol-coated tables, benches, trash and ash receptacles, planters, golf-range dividers, and tree grates, available in various styles and colors.	Free Write in No. 2714
Keystone Ridge Designs 800-284-8208; Fax: 724-284-1253 www.keystoneridgedesigns.com Butler, PA 16003	Designs and manufactures site furniture, including planters, ash urns, benches, litter receptacles, table & chair sets, bike racks, and bollards. Product material: powder-coated steel.	Free Write in No. 728
Kim Lighting 526-968-5666; Fax: 626-369-2695 www.kimlighting.com City of Industry, CA 91716	Outdoor site, area, and landscape lighting fixtures, using die-castings in aluminum and brass, as well as cast copper and bronze.	Free Write in No. 873
King Luminaire/The Stress Crete Group 800-268-7809; Fax: 905-632-8116 www.kingluminaire.com Burlington, ON, CANADA L7R 3X9	Period lighting fixtures with cast ductile iron poles, and decorative concrete poles and bollards in a variety of colors. Acorn luminaires are available in polycarbonate or acrylic.	Free Write in No. 3410
Kroy Building Products, Inc. 800-933-5769; Fax: 402-362-6797 www.kroybp.com York, NE 68467	Vinyl fencing and accessories; supply fabricators with vinyl fence products to produce custom fencing.	Free Write in No. 82
Lake Shore Industries 800-458-0463; Fax: 814-453-4293 www.lsisigns.com Eric, PA 16512	Manufactures custom cast-aluminum signs and plaques. Specialist in street signs, town seals, historical markers, and custom work.	Free Write in No. 8730
Lake Shore Specialties 847-295-8585; Fax: 847-295-2429 P.O. Box 611 Lake Forest, IL 60045	Custom architectural components for landscapes, including fences, gates, arbors, pavilions, pergolas, site shelters, playground systems, custom bridges (pedestrian & vehicular); prefab pieces facilitate installation. Custom work.	Free Write in No. 2773
Le Jardin Du Louvre 609-924-2743; Fax: 609-497-7369 4451 Route 27 Princeton, NJ 08540	Source of carved-stone landscape ornament, including urns, statuary, fountains, and pavers; custom work available.	Free Write in No. 2568
Leavitt Garden Sculpture 518-643-6896; No Fax 253 Norrisville Rd. Schuyler Falls, NY 12985	Custom lawn, garden, and pond sculptures in copper, brass, and silver.	Free
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Lykins-Signtek, Inc. 941-591-4131; Fax: 941-591-3940 5935 Taylor Road Naples, FL 34109	Firm custom-designs cast-aluminum, wood, and other specialty maliboxes, lighting, signage, and more.	Free
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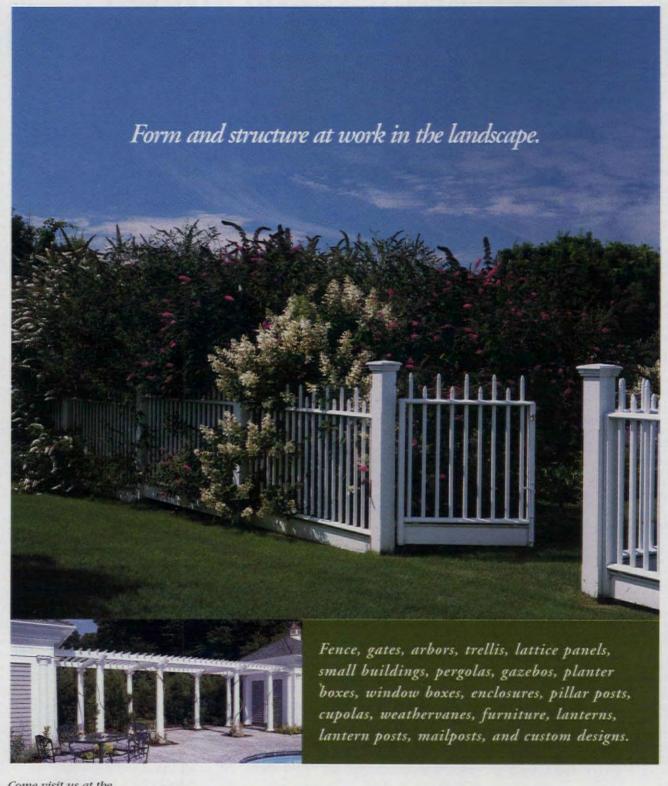


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Mansfield Stone 812-448-3430; Fax: 812-446-6025 P.O. Box 189 Brazil, IN 47834	Source of multi-colored red and brown sandstone.	Free Write in No. 876
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Max-Cast 319-656-5365; Fax: 319-656-3187 www.kctc.net/max-cast Kalona, IA 52247	A full-service sculpture foundry with artists, designers, and foundrymen to help you create your vision in cast iron, bronze, or aluminum.	Free Write in No. 2704
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Newstamp Lighting Co. 508-238-7071; Fax: 508-230-8312 www.newstamplighting.com North Easton, MA 02356	Indoor and outdoor lighting fixtures in all styles in copper, brass, and terne metal. All energy sources, including gas. Catalog available for Colonial-style fixtures and lanterns; restoration and reproduction.	Free Write in No 800
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Nightscaping — Loran, Inc. 800-544-4840; Fax: 909-794-7292 www.nightscaping.com Redlands, CA 92374	Premium-quality 12-volt landscape-lighting manufacturer since 1959 offering a diverse line of warranty-protected fixtures, transformers, control options, and accessories to meet your exact need. Call for details.	Free
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Ornamental Steel Designs, Inc. 931-552-0365; Fax: 931-645-9656 www.osdsteel.com Clarksville, TN 37040	Museum-quality line of railings, gates, furniture, and accent pieces for interior and exterior use. Custom work a specialty. Furnishes ornamental parts for fabrication.	Free Write in No. 2793
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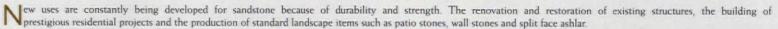
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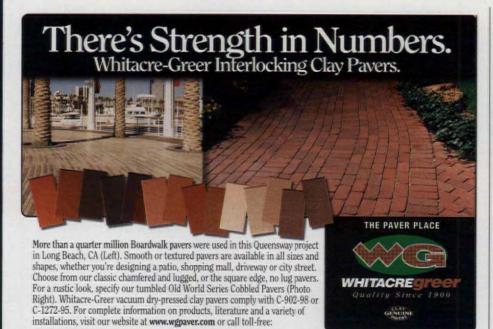
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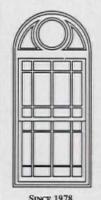
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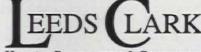
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Scofield Co., L.M. 800-800-9900; Fax: 323-727-5943 6533 Bandini Blvd. Los Angleles, CA 90040	Specialists in concrete-coloring technology for paving and other systems. Chromix admixtures for color-conditioned concrete are water-reducing compounds that produce permanent, nonfading color and improved concrete characteristics.	Free Write in No. 2599
Scott System, Inc. 303-341-1400; Fax: 303-341-1995 www.scottsystem.com Aurora, CO 80011	For more than 30 years, Scott System has manufactured form liners for architectural concrete and supplied brick-embed systems.	Free
Seibert & Rice, Inc. 973-467-8266; Fax: 973-379-2536 www.seibert-rice.com Short Hills, NJ 07078	Source of high-quality handmade terra-cotta garden planters and ornaments from Impruneta, taly; high-relief, fine detailing, freeze-resistant. Extensive inventory, custom capabilities.	Free Write in No. 5500
Sentry Electric Corporation 516-379-4660; Fax: 516-378-0624 www.sentrylighting.com Freeport, NY 11520	Manufacturer of commercial-grade decorative, period, and antique outdoor-lighting products, including luminaires, posts, and bollards. Materials include cast aluminum and cast iron. Custom products routinely done.	Free Write in No. 497
Sierra Architectural Cast Stone 800-333-9302; Fax: 513-665-2005 www.sierrastone.com Cincinnati, OH 45202	Dry-cast limestone and shell-stone products; also available in FRP and cast stone, balusters, cornices, columns, door and window surrounds, and more. Exterior aggregated paint complimenting cast stone and FRP.	Free Write in No 236
Sitecraft, Inc. 800-221-1448; Fax: 718-482-0661 www.site-craft.com Long Island City, NY 11101	Exterior-site furnishings in redwood, cedar, and other fine exterior woods: planters, benches, trash receptacles. Custom work and custom exterior finishes available.	Free Write in No 6730
Stewart Iron Works Co. 606-431-1985; Fax: 606-431-2035 www.stewartironworks.com Covington, KY 41012	Manufacturer of ornamental iron fences, gates, and railings since 1886. Also, steel park benches, cast-iron furniture, custom-fabricated tables, lighting, signage, more.	Free Write in No 9910
Stone Forest 505-986-8883; Fax: 505-982-2712 www.stoneforest.com Santa Fe, NM 87504	Hand-carved granite fountains & garden ornament, combining Japanese tradition with contemporary design. Traditional Japanese lanterns, Arts & Crafts-style and contemporary stone bollards.	Free Write in No 1108
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No 8630
Stone Manor Lighting 888-534-0544; Fax: 310-457-6285 www.stonemanorlighting.com Malibu, CA 90265	Maker of hand-crafted copper, brass, and leaded- and stained-glass, low-voltage garden lights. Traditional designs available; custom work a specialty.	Free Write in No 725
Stonex Cast Products 732-938-2334; Fax: 732-919-0918 www.stonexonline.com Farmingdale, NJ 07727	Baluster and rail system; quoins, window sills & surrounds, wall copings, splash blocks, pier caps, and much more in cast stone; seven styles of balusters; curved railings available.	Free Write in No 507
Summerwood Products, Inc. 800-663-5042; Fax: 416-431-2454 www.summerwood.com Toronto, ON, CANADA M1H 2W7	Easy-to-assemble gazebo kits that fit into any location. Many styles and sizes to choose from; custom designs available.	Free Write in No 3142
Sunbilt Solar Products 718-297-6040; Fax: 718-297-3090 www.sunbilt.com Jamaica, NY 11433	Designs & manufactures aluminum and glass sunroom additions up to 16 ft. deep; insulating glass in straight- or curved-eave design; custom windows & custom skylights.	Free Write in No 8030
Sweepster, Inc. 800-456-7100; Fax: 734-996-9014 www.sweepster.com Dexter, MI 48130	Manufacturer of a complete line of power sweepers for lawn and garden tractors, skid steers, loaders, and turf mowers. Also, walkbehind and push-broom attachments.	Free Write in No 238
Sycamore Creek 518-398-6393; Fax: 518-398-7697 www.sycamorecreek.com Ancram, NY 12502	Copper garden furnishings, specializing in arbors and trellises. Custom projects welcome.	Free Write in No 709
Sylva Designs LLC 608-643-2032; Fax: 608-643-3016 8167 Lueth Road Sauk City, WI 53583	Firm designs and manufactures garden furniture and other garden site furnishings. Each piece is hand-cast in solid bronze, hand-finished and patinated. Custom work available.	Free Write in No 711
Talladega Foundry 256-362-0056; Fax: 256-362-6880 www.talladegafoundry.com Talladega, AL 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No 3148
Tanglewood Conservatories, Ltd. 410-479-4700; Fax: 410-479-4797 www.tanglewoodliving.com Denton, MD 21629	Authentic, hand-crafted English conservatories. Enchanting historical details, insulated glass, and multi-point brass hardware sympathetically blend in these architecturally distinctive, American-made wood structures.	Free Write in No 8270

COMPANY	SPECIALTY	Literature
Tennessee Fabricating Co. 201-725-1548; Fax: 901-725-5954 www.tnfab.com Memphis, TN 38104	Wholesale supplier of decorative metals and hardware, specializing in cast-iron and -aluminum ornamental castings.	Free Write in No. 5180
Terra Designs Tileworks 973-328-1135; Fax: 973-328-3624 9.0. Box 913 Dover, NJ 07802	Firm designs, replicates, and/or fabricates ceramic specialty projects such as custom tile, mosaic work, or murals in terra cotta, stoneware, or porcelain.	Free Write in No. 2790
Fexas Metal Industries, Inc. 800-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lampposts, and urns.	Free Write in No. 9430
Fiffany Landscape Lighting 218-937-5176; Fax: 218-937-5175 www.tiffanyll.com Hawley, MN 56549	Manufacturer of stained-glass and copper, low-voltage landscape lighting fixtures.	Free
Fowne House Restorations 718-326-4210; Fax: 718-326-1344 www.caststone.org/thr Maspeth, NY 11378	Custom fabricator of cast stone and GFRC to replicate ornamental terra cotta, limestone, & brownstone. Services include pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings, engineering.	Free Write in No. 545
Fropic Top/Symbold 407-273-0069; Fax: 407-273-0060 www.thatchart.com Orlando, FL 32812	Manufacturer of lightweight metal 'thatch' shingles for buildings and structures, which give a tropical look in any climate. Ideal for resorts, restaurants, hotels, parks, etc. Also, waterfall, pond, and rock formations.	Free Write in No. 3870
Under Glass Mfg. Corp. 845-336-5050; Fax: 845-336-5097 P.O. Box 798 Lake Katrine, NY 12449	Aluminum and glass greenhouses, solariums, and sunrooms. Greenhouses have curved or straight eaves and slim glazing bars that channel condensation. Standard and custom models. Lean-to and even span, attached or freestanding.	Free Write in No. 3510
Verdin Co. 800-543-0488; Fax: 513-241-1855 www.verdin.com Cincinnati, OH 45202	Nation's oldest and largest manufacturer of street clocks, tower clocks, and clock-chiming systems. Also, clock repair, restoration, and renovation. Specialist in bells, bell-ringing equipment, and electronic carillons.	Free Write in No. 4350
Vermont Outdoor Furniture 800-588-8834; Fax: 802-476-8834 www.vermontoutdoorfurnitur.com Barre, VT 05641	Full line of white cedar outdoor benches, ta- bles, chairs, porch swings, and lounge chairs. Designs evoke English garden furniture. Residen- tial, commercial; guaranteed; factory-direct shipping.	Free
Versa-Lok Retaining Wall Systems 800-770-4525; Fax: 651-770-4089 www.versa-lok.com Oakdale, MN 55128	Segmental retaining-wall systems with no mortar or footings required. Easy construction of curves, corners, and steps.	Free
Vintage Woodworks 903-356-2158; Fax: 903-356-3023 www.vintagewoodworks.com Quinlan, TX 75474	Extensive selection of wood porch parts, including turned posts, turned and sawn balusters, railings, brackets, corbels, customlength spandrels, and more. 224-page Master Reference Catalog; 208-page Porch Design Book.	Free Write in No 1061
Vixen Hill Gazebos 800-423-2766, Fax: 610-286-2099 www.vixenhill.com Elverson, PA 19520	Line of cedar gazebos and screened pavilions and gardenhouses in easy-to-assemble modular kits. Copper roofs; two-tier and single-tier roof systems available. Also, custom-size mortise-&tenon cedar shutters with hardware.	Free Write in No 7100
Vulcan Supply Corp. 802-893-0512; Fax: 802-893-0534 P.O. Box 100 Westford, VT 05494	Specialist in replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornices, vented ridge cresting, leader boxes, cupolas, roof vents, and more; all periods and styles.	Free Write in No 7212
Walpole Woodworkers 508-668-2800; Fax: 508-668-7301 www.walpolewoodworkers.com Walpole, MA 02081	Manufacturer and retailer of high-end fencing, small buildings, furniture, and garden amenities. Over 40 standard styles of fence, as well as custom designs.	Free Write in No 280
Ward Greenhouses 978-369-1354; Fax: Same as phone 345 Lexington Road Concord, MA 01742	Custom greenhouses and conservatories constructed from new and antique greenhouse materials. Also, greenhouse restorations; restoration parts; design and consulting services. Antique greenhouses relocated.	Free Call for more information
Wausau Tile, Inc. 800-388-8728; Fax: 715-355-4627 www.wausautile.com Wausau, WI 54402	Manufacturer of precast-concrete site amenities: planters, waste receptacles, bollards, ash urns, recycling containers, tables, benches, signs. Also, precast-concrete pavers in over 30 colors and terrazzo flooring in over 60 colors.	Free Write in No 4120
Whitacre-Greer 800-WG-PAVER; Fax: 330-823-5502 www.wgpaver.com Alliance, OH 44601	Manufactures bevel-edged, genuine-clay pavers with high freeze-thaw resistance; 14 colors, various sizes and shapes. Thicknesses from 1-1/2 in. to 3-1/2 in.; face dimensions may be 4x8 or 8x8 in two textures, as well as cobbled.	Free Write in No 505
White Oak Forge, Ltd. 540-253-5269; Fax: 540-253-5173 P.O. Box 341 The Plains, VA 20198	Artist-blacksmith uses hot-forging and traditional joinery methods to produce architectural elements such as andirons, fire tools, fences, gates, railings, balustrades, and furniture.	Free Write in No 6300
Wiemann Ironworks 918-592-1700; Fax: 918-592-2385 www.wiemanniron.com Tulsa, OK 74104	Since 1940, firm designs, fabricates, and installs fine forged architectural and ornamental metalwork for a national market. Residential and commercial. Custom finishes. CAD services. NOMMA's most award-winning metal fabricator.	Free Write in No 1223
Wood Factory 936-825-7233; Fax: 936-825-1791 111 Railroad Street Navasota, TX 77868	Historically accurate millwork reproductions, interior & exterior: doors, screen doors, benches, stair parts, railings, porch parts, custom-turned column bases, newels, and more. Specialist in custom matching existing parts.	Free Write in No 7120
Written in Stone 800-WRITTEN; Fax: 201-750-0099 www.american-written.com Closter, NJ 07624	Custom engraving on bricks, pavers, granite, marble, natural stone, slate, wood, glass, and photo etchings.	Free Write in No 919

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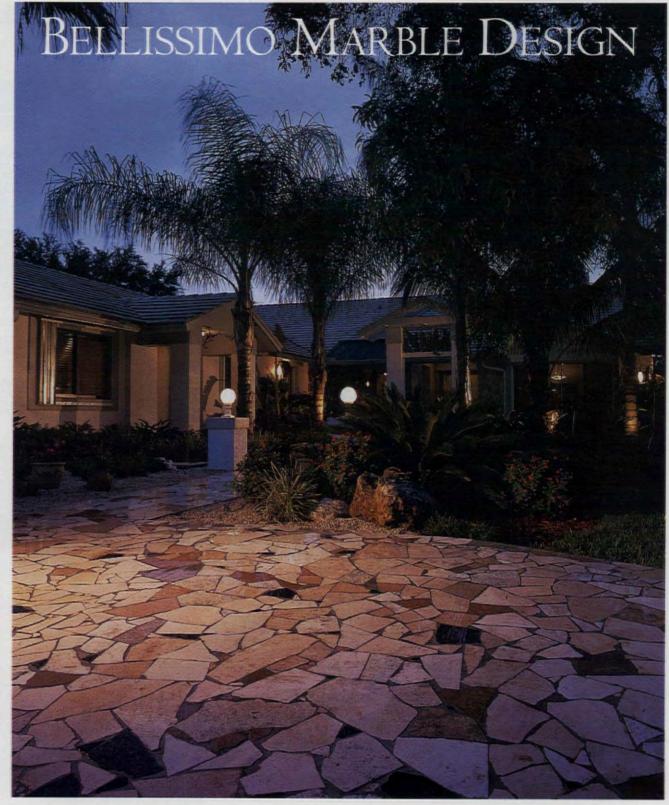
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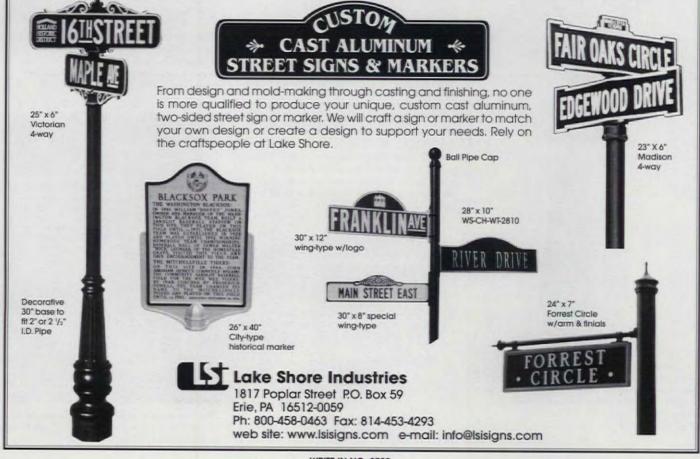


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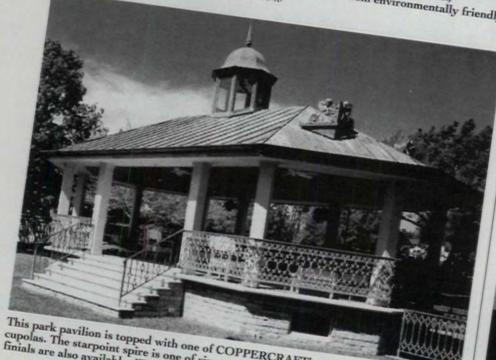
CAPES & STREETSCAPES PORT For full contact information on these companies, consult the SourceList on pp. 102 - 110.



The Glenham teak bench from BARLOW TYRIE, INC., is available in 4-ft., 8-ft., or, as shown here, 6-ft. lengths, and is constructed from environmentally friendly plantation-grown teakwood. Write in No. 9540

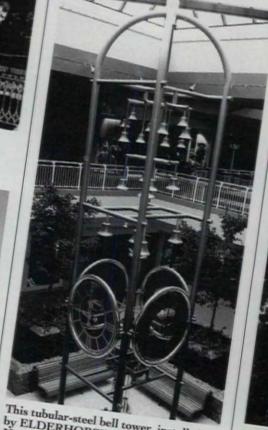


DUMOR's #78 game table features a 14-gauge steel board with porcelain finish and a choice of two or four seats. Write in No. 2180



This park pavilion is topped with one of COPPERCRAFT's ready-to-install cupolas. The starpoint spire is one of six standard designs, though custom spires and finials are also available. Write in No. 1490





This tubular-steel bell tower, installed by ELDERHORST BELLS in the Masonville Mall in London, Ont., features a four-face clock and computer-operated carillon. Write in No. 2100



HENNESSY HOUSE manufactured this 20-ft. Douglas fir flagpole for the home of former-President Bush. Write in



This astrolabe, in hand-wrought brass set on a cast-stone pedestal, is part of the huge range of garden features available from FLORENTINE CRAFTSMEN.

Call 800-876-3567 for information



IMPERIAL MAILBOX SYSTEMS' stock of cast-aluminum mailboxes, light posts, and street signs includes this model, which features scroll arms for hanging-style street signs and slidein blade frames. Write in No. 586



Signage of all types, such as this street sign, is the specialty of LAKE SHORE INDUSTRIES. Write in No. 8730



The inventory of vintage bells available from BROSAMER'S BELLS ranges from full-size church models to small farm dinner bells, ideal for garden and park



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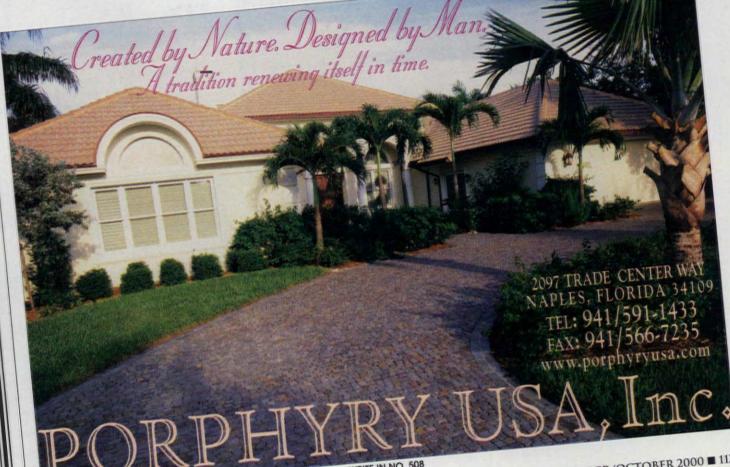


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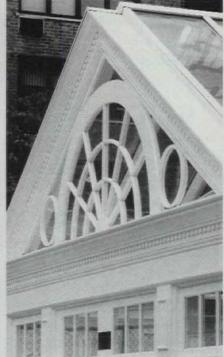


ANDSCAPES & STREETSCAPES PORTFOLIO

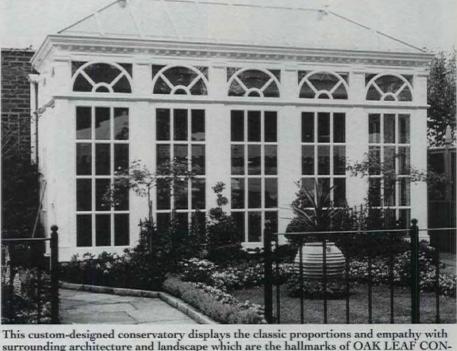
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VERDIN's range of street furnishings includes this classic, four-faced, Victorian post-clock replica. Write in No.



The details on this Georgian-style conservatory from TANGLEWOOD CONSERVATORIES include true dividedlite grillework, decorative aluminum castings, and decorative ironwork. Write in No. 8270



This custom-designed conservatory displays the classic proportions and empathy with surrounding architecture and landscape which are the hallmarks of OAK LEAF CON-SERVATORIES. Write in No. 6860



This distinctive custom sundial has a 10-ft. diameter and was created by KEN-NETH LYNCH & SONS for a corporation in Syracuse, N.Y. Call 203-762-8363





SUMMERWOOD PRODUCTS provides a variety of ready-to-assemble structures, including many styles of gazebos, garden sheds, park shelters, and pool cabanas, such as the 6-ft.-x-8-ft. model shown here. Write in No.3142



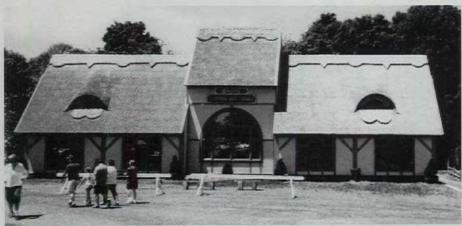
This 16-ft.-tall, four-sided clock from NATIONAL CLOCK & LIGHT is available with either a Roman or Arabic dial. Write in No. 503



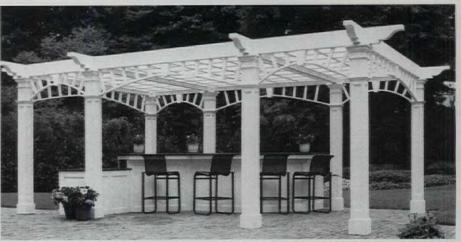
ROBINSON IRON's ornate French Renaissance garden settee is cast in iron and measures 36 in. tall, 46 in. wide, and 36 in. deep. Write in No. 3240



Paving systems and concrete-staining processes from L.M. SCOFIELD CO. replicate natural materials in concrete for a fraction of the cost. (Photo: L.M. Scofield Co.) Write in No. 2599



MCGHEE CUSTOM THATCHING thatches roofs in the traditional English style, from small outbuildings and leisure structures to large commercial projects, such as this gift shop in Oswego, N.Y. Write in No. 2502

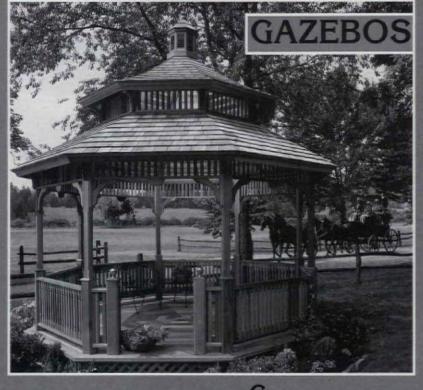


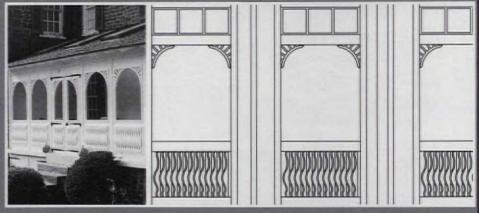
This free-standing pergola from WALPOLE WOODWORKERS adds a formal feel to its poolside setting. Write in No. 280

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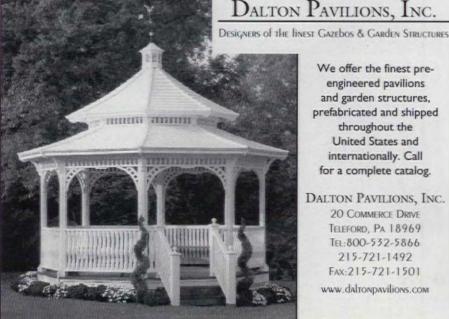
ornamentation

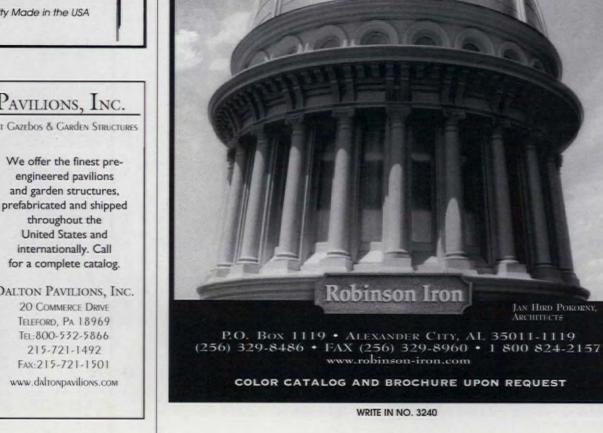
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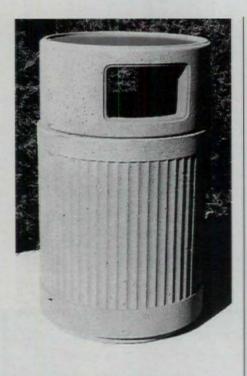


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For full contact information on these companies, consult the SourceList on pp. 102 - 110.



The model #348 steel park bench is one of many site furnishings available from BLUE VALLEY INDUSTRIES, INC. Write in No. 467



DOTY & SONS' Town Square trash receptacle has a 31-gallon capacity and is available with a heavy-duty steel lid in a terra-cotta finish. Write in No. 2090



The architectural detail on this charming garden house from CITY VISIONS is indicative of the firm's craft. Write in No.



The Arts & Crafts-influenced McConnell series of site furnishings, which includes the bench, backless bench, trash receptacle, and ash urn pictured here, is available from KEYSTONE RIDGE DESIGNS. Write in No. 728



Architectural-fiberglass-ornament specialists EDON CORP, have a new line of garden sculpture, which includes this lion fabricated from lightweight reinforced-polyester resin. Write in No. 3117



COPPA WOODWORKING offers a range of Adirondack garden furniture, which includes this chair and footrest. Write in No. 9600



The stone used in the pool deck, retaining walls, posts, veneer, and arches of this building in Georgia were all supplied by FIELDSTONE CENTER, INC. Write in No. 2592



DALTON PAVILIONS' Town Square series of gazebos and pagodas, which includes the 26-ft.-diameter Williamsburg pagoda pictured here, was developed with commercial and public recreational applications in mind. Write in No. 330



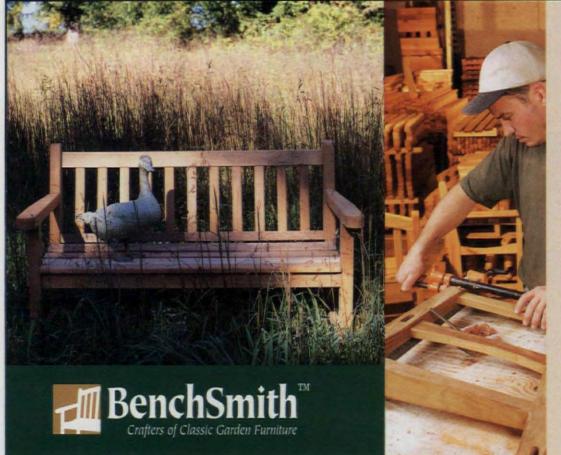
As well as holding a huge inventory of antique chimney pots, THE CHIMNEY POT SHOPPE also supplies this attractive terra-cotta garden edging. Write in No. 410



Twists and scrolls are features of this decorative iron tree-guard fence from GABY'S SHOPPE. Write in No. 2520



ARCHITECTURAL ADDRESS' range of pre-cast stock signs, in 22-lb. highdensity urethane, includes this model. Write in No. 2050



The difference between a bench and a BenchSmith.

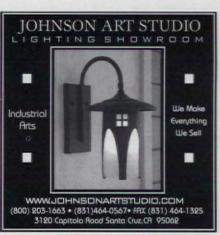
There are benches, then there are BenchSmith benches. Ours feature the highest quality woods, a twenty-step inspection process, meticulous hand sanding and time tested mortise and tenon construction to ensure stability and strength. You'll appreciate the durability and craftsmanship that goes into every piece of furniture that bears the BenchSmith name. Your clients will be sold on the lasting beauty and solid value. Our track record with architects and landscape designers on numerous projects attests to our commitment to integrity and personal service. To sample our selection of teak, mahogany and cedar furniture, call us or visit us online at benchsmith.com.

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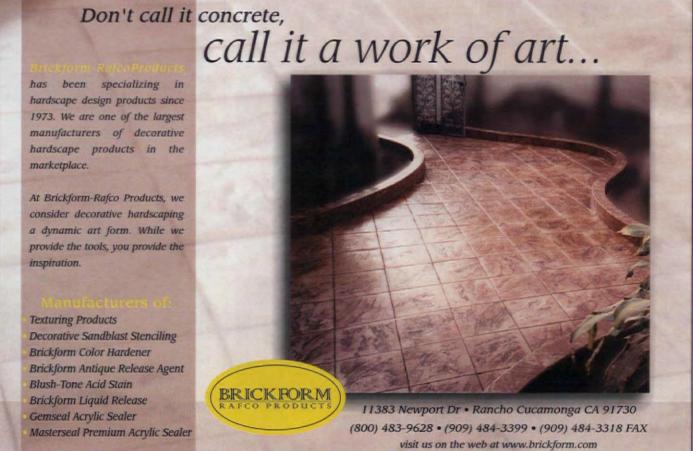


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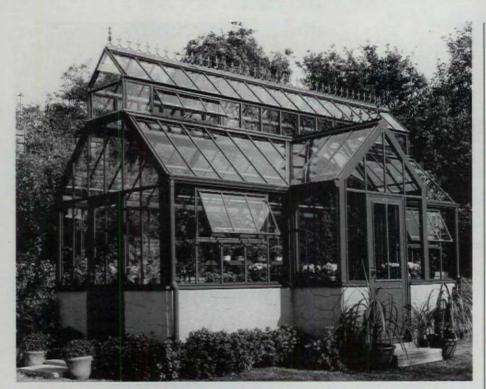


WRITE IN NO. 2180



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For full contact information on these companies, consult the SourceList on pp. 102-110.



Fine European glasshouses, such as this Hartley Botanic model, are the specialty of PRIVATE GARDEN. Call 800-287-4769 for information



Custom designs that incorporate antique elements, such as the wood shakes on this greenhouse in Carlisle, Mass, are the specialty of WARD GREENHOUSES. Call 978-369-1354 for information



Paolucci's restaurant in Millbrook, N.Y., commissioned SUNBILT SOLAR PRODUCTS to construct this elegant dining enclosure in aluminum and glass. Write in No.~8050



MAINE MILLSTONE's antique granite millstones are used in a variety of ways, from paving to, as pictured, providing a decorative element in a stone fence. Write in No. 4440



Over 200,000 of WHITACRE GREER's brick pavers were used in the Queensway project in Long Beach, Calif. Write in No. 505



An artisan from WRITTEN IN STONE carves the name of a fallen soldier into the black granite of the Vietnam War Memorial in Holmdel, N.J. Write in No.



The Chilstone Italian bench measures 48-1/2 in. long, 17-1/2 in. tall, and 15-3/4 in. wide, and is available from PARAGON GARDEN ART. Write in No. 2751



Rotary Park in Canton, Ohio, was paved using the Quarrybasics and Ironrock lines of quarry tiles from METROPOLITAN CERAMICS. Write in No. 54

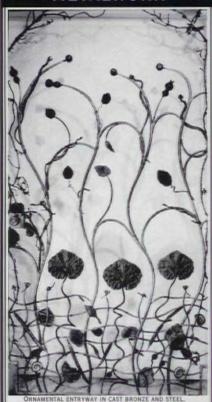


Streetscape renovation, repair, and rehabilitation are specialties of LEEDS CLARK. Write in No. 1930

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ROTHY M. JONES	The state of the s	yn m.
PRISTINE PRO	DUCTS	Identa-Brick

PRISTINE PRODUCTS' Identa-Brick personalized pavers have any number of applications, including, as pictured here, a college yearbook in stone. Write in No. 8680

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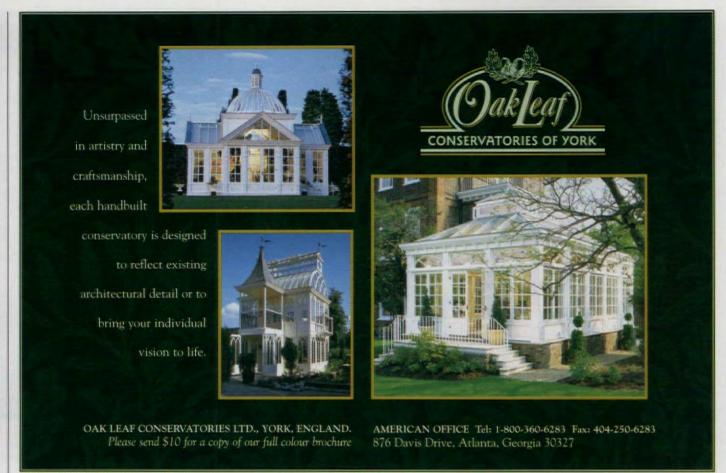
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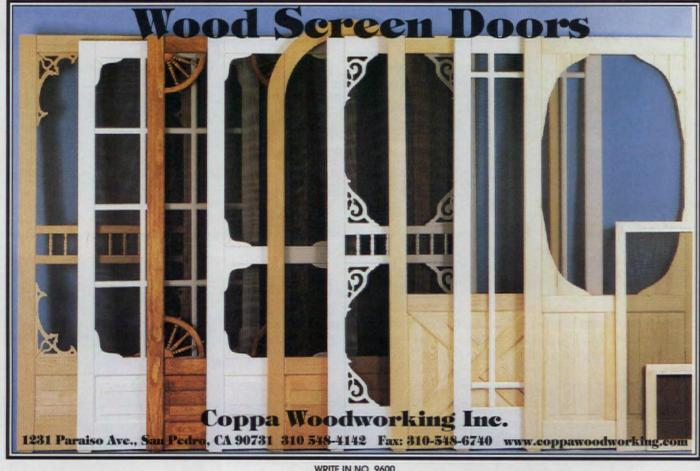
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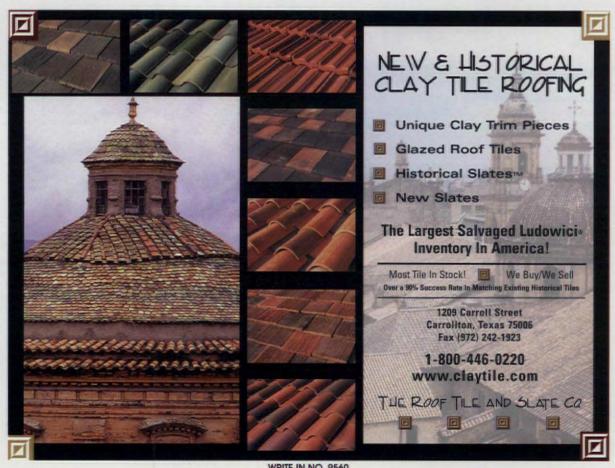


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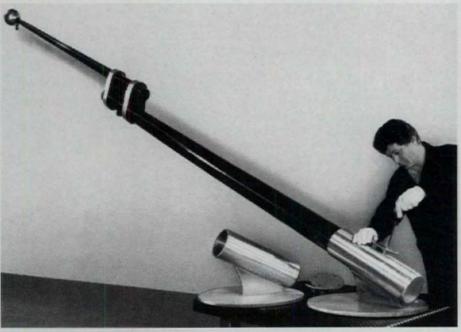
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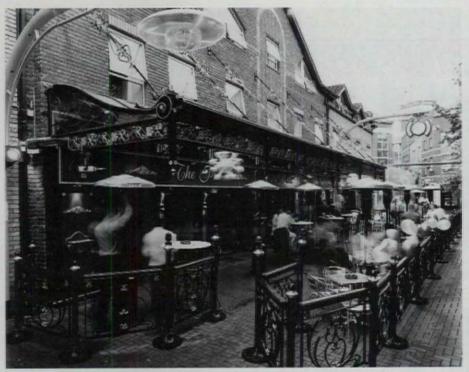


LANDSCAPES & STREETSCAPES PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 102 - 110.



This double-mast flagpole was custom designed and fabricated by EDER FLAG with a solid-brass base and saddles. Write in No.4290



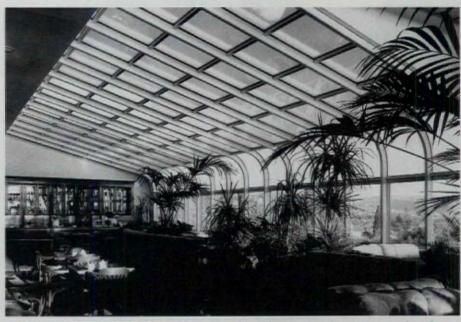
This Art Nouveau street canopy and railing system was created by ANDY THORNTON for a pub in Limerick, Ireland. Write in No. 2736



This podium deck in Toronto, Ont., was set with Pave-El paver pedestals from ENVI-ROSPEC, INC., which provide a drainage plane and increase the life expectancy of virtually all pavers. Write in No. 3137



ENVIRONMENTAL FEATURES produce a wealth of streetscape furnishings, including these planters and benches. Write in No. 278



FOUR SEASONS SUNROOMS' System 5 line of commercial sunrooms and enclosures features an all-aluminum structure and curved-eave option, as seen here in the firm's work on the cafe and bar of the Grand Hotel Emona in Slovenia. Write in No. 910



HEALY BROTHERS FOUNDRY specializes in plaques and signage, such as this piece cast in bronze and finished with an antique green patina. Write in No. 5530



CHAENOMELES' pineapple-motif flagstaff holder is cast in solid bronze. Write in No. 1561



This wall-mounted Victorian-style mailbox in cast aluminum, from AM-DIA, INC., is 20 in. tall, 15 in. wide, and projects 5 in. from the wall. Write in No. 95



This distinctive Satyr topiary frame from GARDENWORKS features hand-wrought copper mask, hands, torches, and feet. Write in No. 2769



Prefabricated aluminum bus and transit shelters, such as this model from the Old Fashioned Style Shelters line, have been the specialty of COLUMBIA EQUIP-MENT CO. for more than 38 years. Write in No. 3105

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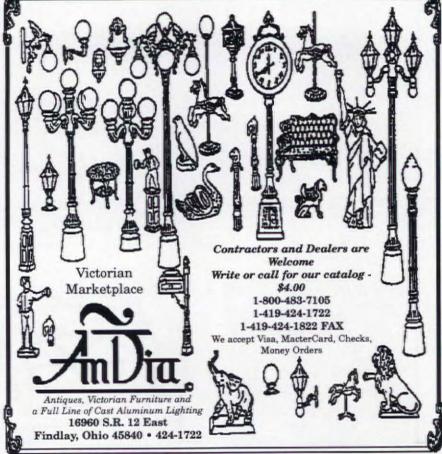
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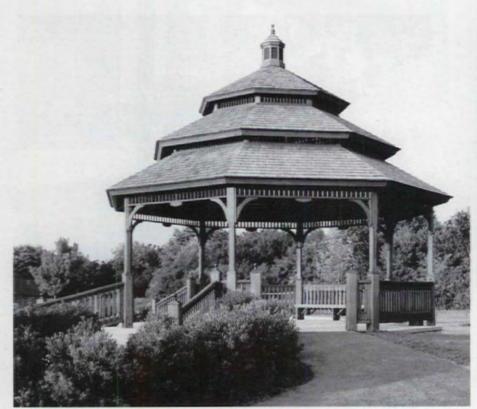
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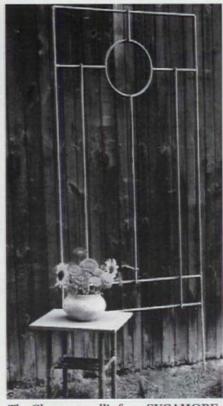
VIXEN HILL GAZEBOS' three-tiered 27-ft.-dia. pavilion, #VK-27C, is manufactured in rigid pre-assembled modules and can be erected by non-carpenters, usually in a single day. Write in No. 7100



SYLVA DESIGNS' Sylva bench is constructed of Ipe wood and bronze and finished with a verdigris patina. Write in No. 711



This driveway is paved with PINE HALL BRICK's Old Towne brick in a rustic color pattern with antique edging. Write in No. 5150



The Clermont trellis from SYCAMORE CREEK measures 3 ft. x 8 ft. and is hand-crafted in copper piping and finished to a natural verdigris patina. Write in No. 709



These natural-thatch-reed umbrellas with peeled-cedar posts are part of the repertoire of SAFARI THATCH & BAMBOO, a complete custom jungle- and tropical-theming firm. Write in No. 621



TROPIC TOP's thatch-look aluminum shingles give the look of tropical thatch with none of the maintenance. Write in No. 3870



SWEEPSTER's line of landscape- and streetscape-maintenance products includes a range of sweepers, from walkbehind models to sit-on models such as this. Write in No. 238



NEW ENGLAND GARDEN ORNA-MENTS' wrought-iron bench is constructed from 1/4-in. steel stock in a Regency style. Write in No. 2748



This pavilion is one of six constructed in Douglas fir by RED SUSPENDERS TIMBER FRAMES for the Lake Hills Park in The Woodlands, Tex. Write in No. 1025



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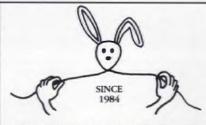
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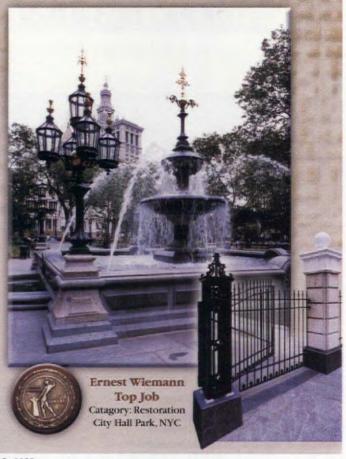
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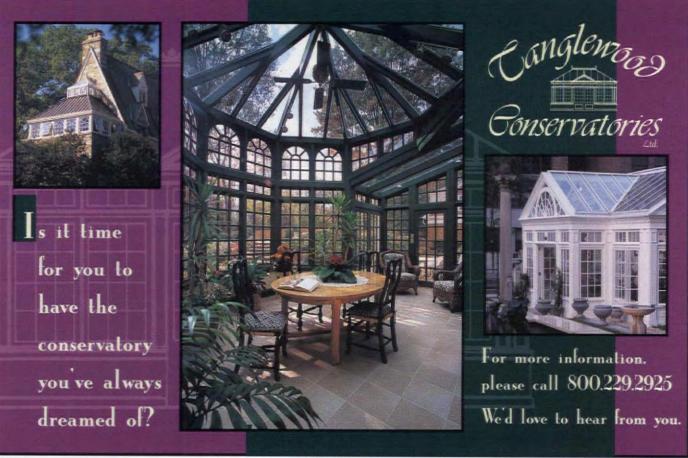
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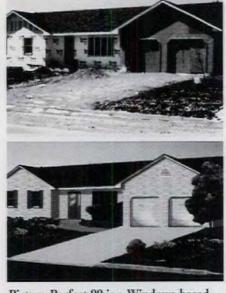


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Custom stonework and mosaics, such as this unusual driveway, are specialties of BEL-LISSIMO MARBLE DESIGN. Write in No. 2601



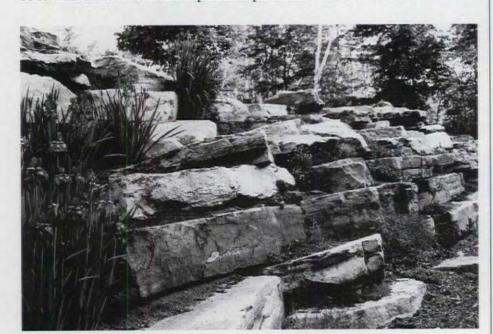
Picture Perfect 99 is a Windows-based visualization product from EAGLE POINT SOFTWARE, with a CD library of over 3,600 images of retaining walls, trees, site furniture, plants, and more. Write in No. 2573



The Starburst series of cast-iron pedestrian-proof tree grates from IRON-SMITH is available in squares of up to 96x96 in., rectangles of up to 48x144 in., and circles of up to 120-in. dia. Write in No. 9000



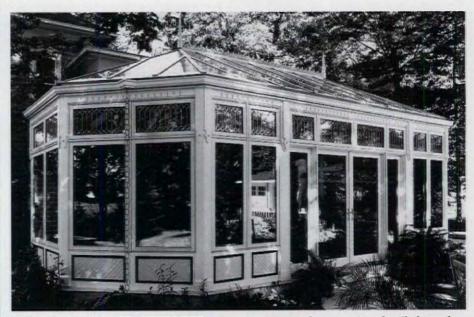
This circular table with chair seats is available from KEN COAT INC. in diameters of 36 or 42 in. and in PVC-coated expanded or perforated steel. Write in No. 2714



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COLEBROOK CONSERVATORIES' handsome conservatory, in hardwood mahogany, matches perfectly the Victorian style of the building to which it has been added. Write in $No.\,382$



This solarium from GLASS HOUSE has a maintenance-free exterior, detailed wooden interior, and high-performance glass, all typical of the firm's work. Write in No. 1870



ALLEN ARCHITECTURAL METALS, INC., fabricated 16 custom kiosks, such as this one which offers historical and tourism information, for Chicago's Historic Boulevards project. Write in No. 1005



The Parthenon postal box from JANZER CORP. is available in polished brass, as pictured, or polished aluminum. Write in No. 46



The Misty Oak lighted address plaque, #LA118 from CUSTOM HOME ACCESSORIES, features cast-aluminum construction, 4-in. numbers on a white translucent-glass lens, and a decorative oak-leaf motif. Write in No. 527

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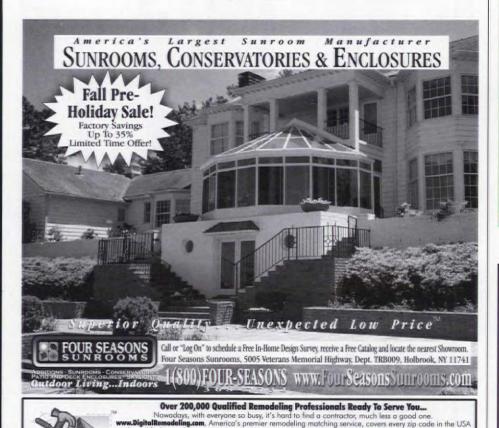
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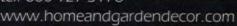
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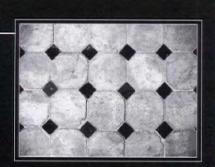
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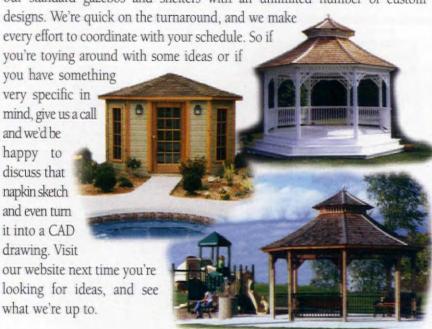
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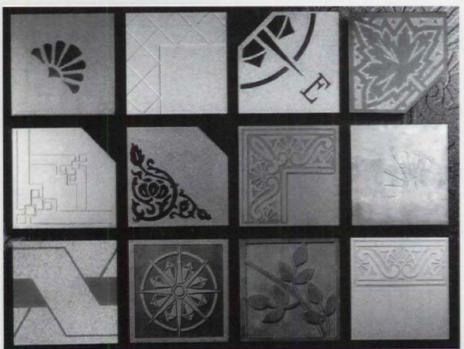


LANDSCAPES & STREETSCAPES PORTFOLIO

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The Lake Wood line of gazebos, manufactured by LEISURE WOODS, INC., includes this model, the Victorian, with double-straight steel roof. Write in No. 735



The new Impression line of pavers for streetscapes and walkways from WAUSAU TILE, INC., offers a number of patterns and configurations which can easily be coordinated with the firm's site furnishings. Write in No. 4120



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ROSSI USA CORP.'s limestone, shown here being quarried in France, is used for a variety of landscape and construction applications including paving, fountains, and building projects. Write in No. 392



This piece of hand-crafted ceramic-tile signage is typical of the meticulous work of the artisans at TERRA DESIGNS TILEWORKS. Write in No. 2790



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RURAL HERITAGE's extensive range of restored English country bygones includes these antique water pumps. Write in No. 2908



This European-inspired Orangerie was designed and manufactured by RENAIS-SANCE CONSERVATORIES to complement and harmonize with the architectural detail of the existing structure. Write in No. 378



SITECRAFT, INC., custom-designed and installed this roof deck and garden at the World Wrestling Federation's headquarters in Stamford, Conn. Write in No. 6730



These ornamental grates were cast by SCHIFF ARCHITECTURAL DETAIL for a large public-fountain project. Write in No. 7730



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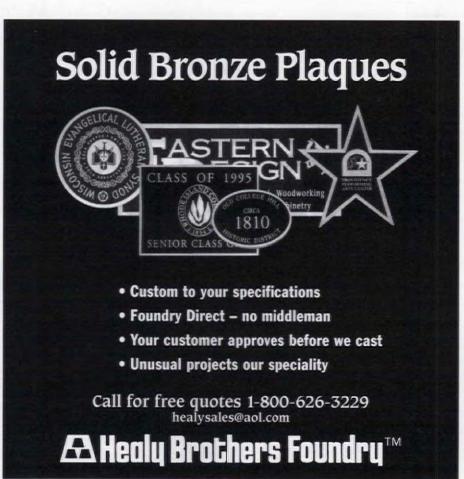
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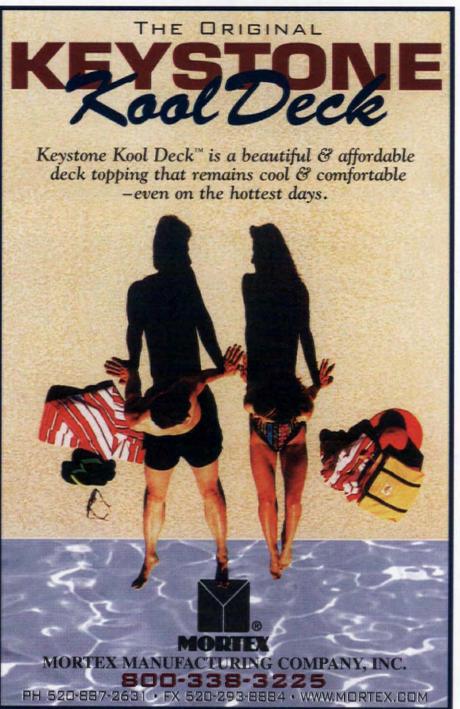


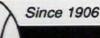
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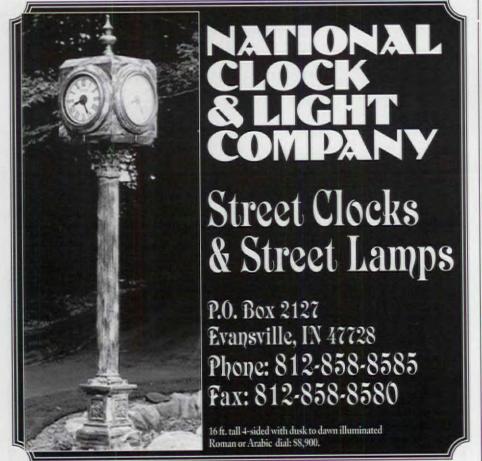
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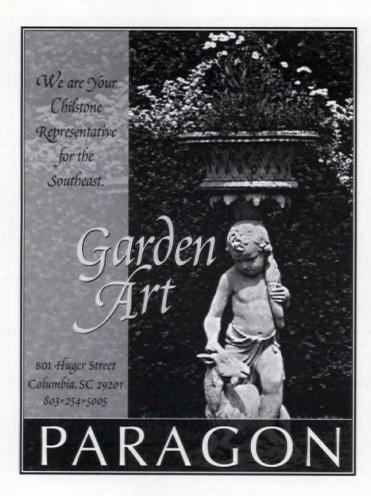
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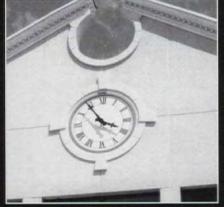
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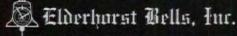
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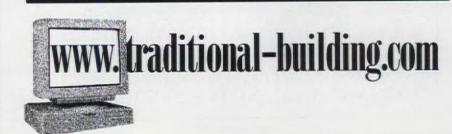
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TIMBER BRIDGES

Among preservationists, the federal government, and bridge builders, timber bridges are flourishing under renewed interest and concern. Here's a look at the various players and the roles they play.

by Michael Carey

According to the Department of Transportation's Federal Highway Administration (FHWA), about 7 percent, or 36,841, of the bridges listed in their National Bridge Inventory (NBI) are timber. These are not only historical structures, reminders of the time when timber was virtually the only choice of construction material, but also newly constructed bridges which incorporate recent developments in design and engineering, as well as in wood treatments. Far from being a material simply superseded by iron, then steel and concrete, timber seems to be making something of a comeback, if it can be said to have gone away at all, as a viable bridge-construction material.

It should be remembered, too, that the NBI is an inventory of highway bridges only. Timber-bridge applications on low-volume and private roads, in park settings, on golf courses, trail bridges, and urban pedestrian projects are also combining the traditional aesthetic appeal of timber with innovative design and material technology. Add to this the burgeoning interest in the preservation of covered and other bridges of historical importance, and, as we reported as far back as 1996 ("Spanning Wood Bridges," *Traditional Building*, September/October 1996, p. 146), a fully-fledged renewal of the timber bridge is underway.

This renewal is due, in no small part, to the institution of a number of programs by Congress: the Department of Agriculture Forest Service (USDAFS)-administered Wood In Transportation Program (WITP), formerly known as the National Timber Bridge Initiative; the Innovative Bridge Research and Construction program, which is an in-

itiative by the FHWA to "provide direction and funding to help State, county, and local bridge owners incorporate innovative materials and materials technologies in their bridge projects;" the National Historic Covered Bridge Preservation program, also administered by the FHWA, which aims to provide "funding to assist the States in their efforts to preserve, rehabilitate, or restore the Nation's historic covered bridges"; and the Turner Fairbank Highway Research Center's Timber Bridge Research program, a joint venture between the FHWA and the USDAFS which researches areas such as lumber-design properties, preservatives, bridge monitoring, inspection, and rehabilitation. Then there is the Southwest Mississippi Resource Conservation and Development, Inc.,-coordinated National Timber Bridge Design Competition, which attracts entries, mostly from university engineering departments, from around the country each year.

While the motivations for these programs are manifold, from historical preservation to the rejuvenation of rural economies, from ecological concerns and the wish to use renewable local resources to finding cost-effective alternatives to steel and concrete construction in smaller vehicular-bridge projects, their very existence speaks not only of the wish to preserve valuable historic structures, but also the desire to explore the full construction possibilities of timber.

With this in mind, *Traditional Building* looked at recent developments in road-bridge construction, bridge restoration, pedestrian, and ornamental bridges and found, in many areas, a heartening combination of tradition and innovation at work.

Timber Road Bridges

In recent years, the emphasis in the use of timber on highway, rural, and local road projects has been on exploring the design properties and construction advantages of wood. The life expectancy of a timber highway bridge is now comparable with an equivalent steel or concrete and steel structure, due, in large part, to research into material-preservation treatments and design technologies such as stress- and glue-lamination. So timber can compete with its rivals at an engineering level while retaining a number advantages in terms of construction as well as ecology and, of course, aesthetics.

A good example of this innovative approach to these traditional structures can be seen in the work of the Wood In Transportation Program. To date the program has funded 322 timber-bridge projects, 234 of which are complete, and 93 special projects, 61 of which are now complete. According to Edward T. Cesa, Program Manager of the WITP Information Center, the organization's work primarily involves the combination and dissemination of historical engineering knowledge with new technologies and design and material research.

The WITP has a competitive grants program which allocates funds to worthwhile projects which utilize innovation and tradition in this way, but, Cesa



For the restoration of the Utica Mill covered bridge near Thurmont, Md., Dean Fitzgerald Heavy Timber Construction lifted the entire 101-ft. span, suspended with about 40 tons of cribbing, in order to replace 30,000 board ft. of timber, including 10-12,000 board ft. of the Burr truss, with solid oak and yellow pine. The bridge dates from around 1843 and was originally built over the Monocacy River. It was washed out in the Johnstown Flood of 1889 and rebuilt, in a truncated form, at its present location in 1891.



A major aspect of the project was the removal and refurbishment of the bridge's siding and shingle roof. Over 70 percent of the original siding was reused and an entirely new roof put in place.



Dean Fitzgerald cuts a heavy beam with his 50-year-old Frick Mill. Much of the timber taken from the bridge during its restoration was remilled and reused.

says, the focus of the program has shifted a little—from scattered single projects to larger-scale commercialization projects. The idea is to fund fewer projects but to fully commercialize technology that has been successfully developed. The grants program provides matching funds on a competitive basis to local governments to demonstrate timber-bridge technology through the construction of demonstration bridges, and the WITP also maintains a technology-transfer program to provide assistance and state-of-the-art information related to timber bridges (see p.132 for contact details and the address for the program's website).

The aim, Ed Cesa says, is to focus on a particular niche for timber as a bridge-construction material. A typical WITP commercialization project will involve the design and construction of three or more single-span, single- or double-lane structures which will utilize treated wood, preferably from local sources, red cedar in Maine, for instance, or cottonwood in Iowa.

The WITP also maintains links with other procontinued on following page





The Old Salem pedestrian bridge, which serves as a walkway across a busy boulevard from a parking area to the Museum of Early Southern Decorative Arts and the Old Salem Museum Village, is the first covered bridge to be built in North Carolina in nearly a century. Blue Ridge Timberwrights used a Burr truss design for the 120-ft. span in, largely reclaimed southern yellow pine with mortise-and-tenon joinery. The Burr truss takes its name from 19th-century bridge-builder Theodore Burr, whose most famous construction was the Waterford Bridge over the Hudson River in New York, which was destroyed by fire in 1909 after standing for 105 years. The distinctive radius arch, seen clearly in the construction stages, measures 103 ft.

grams such as the Innovative Bridge Research and Construction program and the Turner Fairbank Highway Research Center's Timber Bridge Research program, as well as the National Historic Covered Bridge Preservation program (see the sidebars at the right for details on these programs).

For Roger Teachworth, Marketing Manager at Wheeler Consolidated, a Minnesota firm which has designed and fabricated over four thousand bridges, vehicular and pedestrian, since 1892, motivation for the renewal in timber bridges operates on a couple of levels.

Firstly, there are aesthetic considerations, particularly with pedestrian and smaller vehicular bridges. Teachworth cites the case of a project for a small town in Wisconsin where steel was specified. The townspeople rejected the steel option, and state funding, turning to Wheeler and raising funds locally. "Not only did the project please the sensibilities of the townspeople," says Teachworth, "it turned out cheaper."

Secondly, timber has construction positives. Timber bridges can be built at any time of year, even in temperatures that would freeze concrete, and building time is often less than that involved in steel and concrete construction, meaning shorter road closures. Properly treated timber, Teachworth maintains, has a comparable life expectancy to steel and concrete, and, most importantly, "timber is forgiving — if you overload a steel bridge, you pay for it immediately." Timber, according to Teachworth, is simply less prone to fatigue and more resilient.



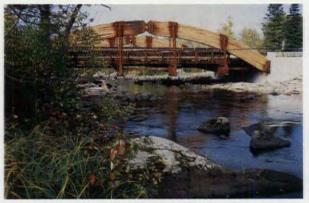


Bow House manufactures a number of ornamental bridges in stock as well as custom designs. The top photo is the Moon model, a stock design constructed from laminated, kiln-dried, pressure-treated Southern yellow pine. Stock designs are available in lengths of up to fifty feet, widths of up to eight feet, and virtually any radius. The bridge pictured above is a Japanese-inspired bridge in Port Orford cedar with spun copper finials.

According to Teachworth, the Wood in Transportation program has also definitely had an impact. Wheeler has been involved in a number of projects under the aegis of the program, ranging from traditionally-designed timber structures to what Teachworth describes as "experimental" designs. Wheeler has "utilized species of less strength or local species," in line with the objectives of the program, and has found the technology transfer aspects of the program to be most useful in their own work.

Historic-Bridge Restoration

While hopes are high that the recently implemented National Historic Covered Bridge Preservation program will have a major impact in this area, community groups and preservation associations have been the outstanding achievers in restoration work.



Wheeler Consolidated's distinctive Three-Pin Arch timber vehicle bridge is a long-span structure constructed in a combination of wood and steel. The bridge utilizes a panelized timber deck system, which shortens construction time and the need to haul concrete long distances. The timber is treated to resist cracking, rot, damage from continuous freezing and thawing, and the effects of alkali soils, salts, and acids.



Wheeler's covered trail bridges are designed to provide a traditional look while utilizing modern design to meet all applicable standards for trail bridges. Constructed from pressure-treated wood at their fabrication plant in the Black Hills of South Dakota, the bridges require almost no maintenance and can be erected in any season.

Organizations such as the Kentucky Covered Bridge Association, the Covered Bridge Society of Oregon, the National Society for the Preservation of Covered Bridges, and the New York State Covered Bridge Society have been instrumental in much of the work done in this area. Also, the push to preserve the nation's covered bridges has had an important run-on effect: the burgeoning of firms capable of the kind of heavy timber-framing work required in a full restoration project (see *Traditional Building*, March/April 2000, p. 88, for our most recent coverage of timber framing).

Dean Fitzgerald is a fine example of this phenomenon. Fitzgerald founded the Frederick County Covered Bridge Preservation Society when the Roddy Road covered bridge near Thurmont, Md., Fitzgerald's childhood home, was damaged by an oversized truck in 1992. Through the Society, Fitzgerald organized the restoration and repair of the bridge which involved an almost entirely volunteer workforce and local funding. The heavy timber work was undertaken by Fitzgerald's firm, Dean Fitzgerald Heavy Timber Construction, but, as Fitzgerald says, the experience of doing this volunteer work has aided immeasurably in broadening the timber-framing capacities of the company.

Fitzgerald has since organized and worked on two other covered-bridge restorations in Frederick County (see the photo spread on p. 131 for the most recent project), and his firm continues to expand its expertise in this area.

Unfortunately, says Fitzgerald, the FHWA's preservation program came along a little too late for Frederick County, but he sees the program as a positive step. (For fiscal year 2000, \$8 million in FHWA administrative funds have been appropriated for the program, \$7 million of which will be provided for bridge preservation, with the other money going towards research and technology transfer. See The FHWA website listed under "Agencies" (right) for more information.)

Significantly, Fitzgerald looks beyond the restoration of existing covered bridges to the construction of new ones. He notes that bridges were originally covered to protect decks and other components from the elements, and, quoting literature from the original Timber Bridge Initiative, describes the life expectancy of a well-built, well-maintained covered bridge as "indefinite."

"We're looking forward to the opportunity to build new covered bridges," Fitzgerald says, adding that "in the long run a covered bridge is a very worthwhile investment for municipalities, governments, businesses, or parks."

Ornamental & Pedestrian Bridges

For park and recreational applications, as well as pedestrian projects where aesthetics are a priority, a number of firms are now producing prefabricated timber bridges which utilize both traditional and contemporary designs. Most firms have a number of stock designs available, but will also provide fully-customized designs or will customize an existing design to suit the project. Common designs range from simple beams to more elaborate arches, trusses, and suspension designs. (See supplier SourceList on page 134.)

Almost all prefabricated bridges, like their larger cousins, use preservative treatments of some kind. The preservatives most commonly used are creosote, copper naphthenate, and pentachlorophenol, which are oil-based, and chromated copper arsenate, ammoniacal copper zinc arsenate, and ammoniacal copper arsenate, which are waterbased. Oil-based preservatives, which leave the timber surface water-resistant but unpaintable, are more likely to be seen on larger applications and structural components, while water-based preservatives are common on ornamental and pedestrian bridges where the surface can be painted or finished and is likely to be subject to human and animal contact. All of these treatments extend the lifespan of timber by many years.

An important aspect to keep in mind when thinking of a small-scale application is that, with shorter spans, design possibilities and options in areas such as species choice are opened.

Agencies

- •FEDERAL HIGHWAY ADMINISTRATION, 400 7th Street, S.W., Washington, DC 20590 Phone: (202) 366-4000 Fax: (202) 366-7239 www.fhwa.dot.gov
- FEDERAL HIGHWAY ADMINISTRATION, Turner Fairbank Highway Research Center, HNR-10, 6300 Georgetown Pike, McLean, VA 22101 Phone: (703) 285-2472 Fax: (703) 285-2766 www.tfhrc.gov
- •NATIONAL WOOD IN TRANSPORTATION INFORMATION CENTER, 180 Canfield Street, Morgantown, WV 26505 Phone: (304) 285-1591 Fax: (304) 285-1587 www.fs.fed.us/na/wit
- •USDA FOREST SERVICE FOREST PRODUCTS LABORATORY, One Gifford Pinchot Drive, Madison, WI 53705 Phone: (608) 231-9493 Fax: (608) 231-9592 www.fpl.fs.fed.us/wit
- •USDA FOREST SERVICE ENGINEERING STRUCTURES, 201 14th Street, S.W., Washington, DC 20250 Phone: (202) 205-1400 Fax: (202) 205-0861 www.fs.fed.us/eng/structures/index.htm

Associations

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, 7012 S.
 Revere Parkway, Suite 140, Englewood, CO 80112 Phone:
 (303) 792-9559 Fax: (303) 792-0669 www.aitc-glulam.org

The AITC is the national technical trade association of the structural glued laminated (glulam) timber industry.

•AMERICAN WOOD COUNCIL, 1111 Nineteenth Street, N.W., Suite 800, Washington, DC 20036 Phone (202) 463-2766 Fax: (202) 463-2791 www.awc.org

AWC is the wood-products division of the American Forest & Paper Association. AWC's mission is to increase the use of wood by assuring the broad regulatory acceptance of wood products, developing design tools and guidelines for wood construction, and influencing the development of public policies affecting the use of wood products.

•APA - THE ENGINEERED WOOD ASSOCIATION, P.O. Box 11700, Tacoma, WA 98411-0700 Phone: (253) 565-6600 Fax: (253) 565-7265 www.apawood.org

For nearly seventy years, APA-The Engineered Wood Association has focused on helping the industry create structural wood products of exceptional strength, versatility and reliability.

•TIMBER FRAME BUSINESS COUNCIL, P.O. Box B1161, Hanover, NH 03755 Phone: (603) 643-5033 Fax: (603) 643-5044 www.timberframe.org

The Timber Frame Business Council is a nonprofit organization dedicated to increasing awareness of the benefits of timber-frame construction. Member companies include builders and designers of timber-frame homes, panel manufacturers, and other related businesses.

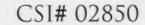
•TIMBER FRAMERS GUILD OF NORTH AMERICA, P.O. Box 60, Becket, MA 01223 Phone and fax: (888) 453-0879 (toll-free) www.tfguild.org

The Timber Framers Guild of North America was born in 1984 as a nonprofit, educational organization. The Guild is dedicated to establishing training programs for dedicated timber framers, disseminating information about timber framing and timber-frame building design, displaying the art of timber framing to the public, and generally serving as a center of timber-framing information for the professional and general public alike.

•WOOD TRUSS COUNCIL OF AMERICA, One WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 Phone: (608) 274-4849 Fax:(608) 274-3329 www.woodtruss.com

Established in 1983, the WTCA has become the only national trade association representing structural-wood-component manufacturers.







Bridges SourceList

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COMPANY	SPECIALTY	Literature	Covered	Golf-Course	Pedestrian	Vehicular	Ornamental	Other	Materials	Restoration	Prefabrications	% Custon
ARK II, Timber Frames Division 509-997-2418; Fax: 509-997-4434 www.ark2timberframe.com Twisp, WA 98856	Timber-frame homes pre-cut and erected in Douglas fir or oak, and enclosed with stresskin panels. Also, wood bridges.	Free Write in No. 1285	~	9	П	-	0		Wood			50%
Blue Ridge Timberwrights 540-382-1102; Fax: 540-382-8039 www.blueridgetimberwrights.com Christiansburg, VA 24068	Team with timber-bridge-construction experience; traditionally joined heavy-timber structures, secured with wooden pegged mortise-and-tenon joints for residences, commercial buildings, etc.	Free	~	~	V	~	V		Wood			90%
Boro Lumber & Timber 718-821-3600; Fax: 718-821-7521 P.O. Box 78 Maspeth, NY 11378	One of the largest timber suppliers and custom-milling facilities on the East Coast; timbers for bridge building, landscape, and marine applications.	Free Write in No. 1080						Timbers for bridges				100%
Bow House/BowBends 800-518-6471; Fax: 978-365-6970 www.bowbends.com Bolton, MA 01740	Maker of exotic garden structures, including bridges, gazebos, arbors, follies, privies, pavilions, and more.	Free Call for more information			V		V		Wood	~	V	50%
Bridge America, Inc. 888-946-4711; Fax: 320-763-5672 www.bridgeamerica.com Alexandria, MN 56308	Steel-truss, steel-stringer, and laminated-timber spans for pedestrian, golf-course, utility-support, and overpass applications.	Free		~	V	~		Utility-support structures; highway & railway overpass structures	Wood, steel		~	50%
Bridge Builders/Fox Lake Construction, Inc. 800-874-9403; Fax: 828-524-5441 www.bridge-builders.com Franklin, NC 28734	Timber bridges custom-built on site: equipment, pedestrian, boardwalks, highway, golf-cart. Also, retaining walls. Specialists in bridge construction through ecologically sensitive areas.	Free Write in No. 3991	V	V	V	~			Wood			100%
Cedar Forest Products 800-552-9495; Fax: 815-946-2479 www.cedarforestproducts.com Polo, IL 61064	Manufacturer and designer of pre-cut custom-engineered buildings, pavilions, shelters, and bridges.	Free	V	V	V				Wood		V	50%
Continental Bridge 800-328-2047; Fax: 320-852-7067 www.continentalbridge.com Alexandria, MN 56308	Manufacturer of custom-engineered, prefabricated, all-hardwood bridges for ornamental or industrial use.	Free Write in No. 689	~	~	V	~			Wood, steel		V	100%
Cowls, W.D., Inc. 413-549-1403; Fax: 413-549-0000 134 Montague Rd., P.O. Box 9677 North Amherst, MA 01059	Pine, oak, and hemlock timbers up to 26 ft. long. Certified grade stamping of lumber and timbers.	Free Write in No. 5270						Timbers for bridges				100%
Fitzgerald Heavy Timber Construction 301-898-9340; Fax: 301-898-9341 www.fitzgeraldtimberframes.com Thurmont, MD 21788	Vehicular & pedestrian covered wooden bridges, designed and built utilizing traditional construction techniques and modern preservation practices. Standing-seam metal roofs and fire- retardant application for 100-year life expectancy.	Free Write in No. 2300	~	~	V	~			Wood	~	~	90%
Hallsten Corp. 916-331-7211; Fax: 916-331-7223 www.hallsten.com Sacramento, CA 95841	Maker of prefabricated bridges and marina systems.	Free	~	~	~	~	V	Marina systems	Steel, aluminum		~	75%
Lake Shore Specialties 847-295-8585; Fax: 847-295-2429 P.O. Box 611 Lake Forest, IL 60045	Custom architectural components for landscapes, including fences, gates, arbors, pavilions, pergolas, site shelters, playground systems, custom bridges (pedestrian & vehicular); prefab pieces facilitate installation. Custom work.	Free Write in No. 2773	~	~	V	V	V		Wood, steel			100%
Laminated Concepts, Inc. 607-562-8110; Fax: 607-562-8105 www.lamcon.com Big Flats, NY 14814	Supplier of "Glulam" timber highway and pedestrian bridges, shipped assembled or unassembled. Design assistance available; field advisor for those who wish to install bridge themselves.	Free	-	~	V	~		Glulam timber bridge rails for concrete bridges				100%
Mabey Bridge & Shore, Inc. 800-426-2239; Fax: 410-379-2801 www.mabey.com Baltimore, MD 21075	Full range of bridging systems for sale or rent. Innovative, modular designs save contractors' time and money. Firm has served the bridging industry for over 50 years.	Free Write in No. 2581			~	~			Steel			50%
Permapost 503-648-4156; Fax: 503-648-6383 www.permapost.com Hillsboro, OR 97123	Covered bridges, trail bridges, & other wood bridges. Fabricated parts for historic-bridge restoration. Also, log-home components, picnic tables, & other fabricated & treated-wood products.	Free Write in No. 635	~	~	V	~	V	Trail, suspension	Wood	~	~	95%
Safari Thatch & Bamboo 954-564-0059; Fax: 954-564-7431 www.safarithatch.com Fort Lauderdale, FL 33305	All tropical- and jungle-theming materials, including thatch bamboo, rustic bamboo and eucalyptus fencing, exotic timber, int./ext. foliage. Also, net suspension bridges; ready-to-assemble thatch and bamboo kiosks, pavilions, trellises, fences, and more.	Free Write in No. 6591					~	Net suspension bridges				0%
Sentinel Structures, Inc. 715-582-4544; Fax: 715-582-4932 www.sentinelstructures.com Peshtigo, WI 54157	Manufacturer and supplier of structural glue-laminated timber for all types of pedestrian and vehicular bridges; all custom made for individual projects.	Free	~	~	~	-			Wood	~	V	90%
ShoreMaster, Inc. 218-739-4641; Fax: 218-739-4008 www.shoremaster.com Fergus Falls, MN 56537	Specialist in all-aluminum custom-built bridges and marina gangways; ADA-compliant, along with meeting all other stringent requirements.	Free	~	~	~			Marina gangways			~	90%
South County Post & Beam 800-471-8715; Fax: 401-783-4494 www.scpb.net West Kingston, RI 02892	Full-service, design and build timber-frame company and wide- pine-flooring supplier. More than 20 years' experience with timber framing. Nationwide shipping of frame and stress-skin- panel enclosure systems.	Free Write in No. 134	~						Wood			1009
Stone Forest 505-986-8883; Fax: 505-982-2712 www.stoneforest.com Santa Fe, NM 87504	Hand-carved granite fountains & garden ornament, combining Japanese tradition with contemporary design. Custom bridges of all sizes and shapes.	Free Write in No. 1108					~		Stone			209
Summerbeam Woodworking, Inc. 717-529-6063; Fax: 717-529-4015 www.period-homes.com/brochure/sum- merb.htm Kirkwood, PA 17536	Regular straight and laminated curved timbers for residential and commercial structures.	Free Write in No. 616						Timbers for bridges				50%
Timberpeg 603-298-8820; Fax: 603-298-5425 www.timberpeg.com West Lebanon, NH 03784	Design, engineering, and fabrication of custom timber-frame structures; network of dealers provides local service; architecture staff facilitates communication with outside architects and designers.	Free Write in No. 8370	~						Wood			909
Wheeler Lumber, LLC 800-328-3986; Fax: 612-929-2909 www.wheeler-con.com Minneapolis, MN 55426	Designs & manufactures timber & steel bridges for vehicular or pedestrian use; timber is preservative-treated; bridges are shipped assembled or unassembled.	Free Write in No. 1063	~						Wood, steel		~	1009

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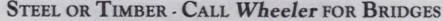
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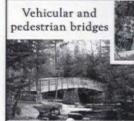
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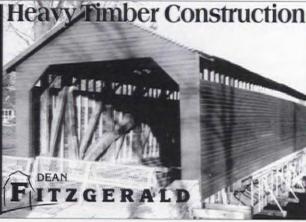
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BRIDGES PORTFOLIO

For full contact information on these companies, consult the SourceList on page 134.



Custom timber-frame bridges are a specialty of SOUTH COUNTY POST & BEAM. Write in No. 134



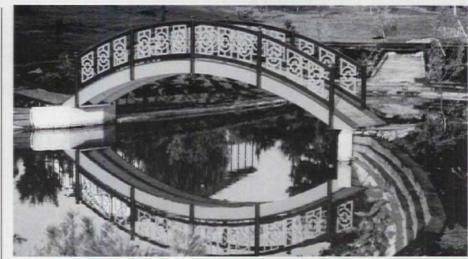
WHEELER CONSOLIDATED, INC., designed and fabricated the 56-ft.-long and 8-ft.-wide bicycle bridge, shown here being erected by the National Guard in Elroy, Wis. Write in No. 1063



CONTINENTAL BRIDGE's pre-fabricated pedestrian bridges, such as this enclosed overpass, are suitable for use in rural, park, and urban settings. Write in No. 689



The Roddy Road covered bridge in Maryland was repaired and restored by FITZGERALD HEAVY TIMBER after it had been damaged by an oversize vehicle. Write in No. 2500



The Oriental-style Moon bridge is one of BOW HOUSE's stock bridge designs and is available in lengths of up to 50 ft. Call 800-518-6471 for information



The Johnsonville covered bridge in Moodus, Conn., is a showcase for the craft and eye for detail of the artisans at KRONENBERGER & SONS. Write in No. 536



BORO LUMBER's inventory includes timbers from 16 in. sq. up to 40-ft. lengths, which are often used in bridges such as this. Write in No. 1080



PERMAPOST PRODUCTS CO.'s wide range of timber-bridge designs includes this suspended pedestrian model. Write in No. 635

TRADITIONAL PLANTERS & URNS

fisitors who stroll through a botanical garden are always amazed to behold the sheer vastness of plant species. The editors of Traditional Building, however, are just as amazed when we reflect on how many kinds of planters there are — you could select a different make of planter for every flower, herb, or shrub envisioned in your landscape design, and still not exhaust the possibilities. Our SourceList starting on page 138, which compiles

32 companies (refined from a survey of suppliers in our database), testifies to the wealth of invention in the field of planters and urns. We've listed products in metal, ceramic, wood, and natural stone, made either by hand or machine; molded planters and urns in cast stone, clay, fiberglass, or molded polymer; design styles from Antiquity to the present; and even chimney pots that also double as attractive garden ornament.

PLANTERS & URNS PORTFOLIO

For complete information on these companies, consult the SourceList on pp. 138-142.



FLOWER FRAMERS' planter is constructed in maintenance-free fiberglass, includes a self-watering drip system, and is available in custom sizes up to 15 ft. Write in No. 3850



17-1/4 in. high, both with a 20-1/16-in. diameter. Write in No. 3068



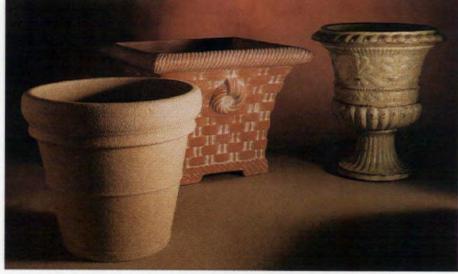
This carved-limestone re-creation jardiniere, decorated with swags of flowers and fruit, stands 27 in. tall, has a 29-in. diameter, and is available from ELIZA-BETH STREET. Write in No. 3001



This large ornamental vase, which is 18 in. tall and has a diameter of 24 in., is one of the finest examples of the Impruneta terra cotta imported by SEIBERT & RICE. Write in No. 5500



AARDVARK ANTIQUES' bronze Urn of Arthur stands 48 in. tall, has a bowl diameter of 34 in., and is available in a green or, as pictured here, dark-bronze patina. Write in No. 718



ARCHITECTURAL POTTERY's inventory of urns and planters is available in a number of custom finishes, including Sandstone, here pictured left, White Wash, center, and Verdigris, right. Write in No. 20



NICHOLS BROS. make a fine line of sandstone containers, including the Shaston planter which stands 17 in. tall, with a base diameter of 11 in. and a rim diameter of 27 in. Write in No. 5980



Hand-made iron-reinforced concrete planters and urns are the specialty of CONCRETE CREATIONS. Write in No. 2608



able in diameters of 19, 24, and 34 in.

This intricately-carved marble urn is a

fine example of the garden furnishings

available from C&G ITALIAN DESIGN. Write in No. 2808

Write in No. 879



CSI# 02870

COMPLIED BY COLE CACNE

COMPANY	SPECIALTY							ic					
		Literature	Planters	Urns	Cast Stone	Natural Stone	Terra Cotta	Glazed Ceramic	FRP	Cast Aluminum	Cast Iron	Lead	Other
Aardvark Antiques 800-446-1052; Fax: 401-849-1591 www.aardvarkantiques.com Newport, RI 02840	Grand iron gates from Newport's "Gilded Age." Hundreds of pieces available. Also fencing, window grates, balconies, and paladium grates.	Free Write in No. 718		~		V							
Allen Architectural Metals, Inc. 800-204-3858; Fax: 256-761-1967 www.allenmetals.com Talladega, AL 35161	Custom ornamental metal castings, both new and replications of historical styles; available in cast and ductile iron and alloys, including aluminum and bronze.	Free Write in No. 1005	~	~						~	~		
Am-Dia, Inc. 800-483-7105; Fax: 419-424-1822 www.victorianmarketplace.com Findlay, OH 45840	Specialist in decorative residential post- and wall-mount mailboxes that are "U.S. Postmaster" approved. Also, cast-aluminum fountains, birdbaths, Victorian-style furniture, street lighting, antique furnishings, planters, urns, and patio furniture.	Free Write in No. 95	~	~						~			
Andy Thornton Architectural Antiques, Ltd. +44-1422-377314; Fax: +44-1422-310372 www.ataa.co.uk Halifax, W. Yorkshire, UK HX4 8AD	Specialist suppliers of landscaping products: lighting, clocks, benches, trash cans, bollards, statuary, railings, colonnade systems, columns, fountains, planters, urns, etc. Decorative-metalwork commissions include gazebos & bandstands.	Free Write in No. 2736	~	~									Various
Architectural Pottery 888-ARCH-POT; Fax: 714-898-5109 www.arcat.com Midway City, CA 92655	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20	~	~	V	V	V	~	V		~		
Architectural Products by Outwater, LLC 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware & lighting.	Free Write in No. 2553	~	~									Polyurethane, white art plaster
Barlow Tyrie, Inc. 800-451-7467; Fax: 856-273-9199 www.teak.com Moorestown, NJ 08057	Solid, all-weather teakwood outdoor and garden furnishings; made in England, inventories in the U.S. for immediate shipment. Wide range of benches (4 to 8 ft.), planters, chairs, tables, and occasional pieces.	Free Write in No. 9540	V										Teakwood
Bohlmann, Inc. 800-325-2380; Fax: 712-263-8077 www.bohlmann.com Denison, IA 51442	Pre-cast planters and urns in almost any stone color; over 40 designs to choose from.	Free	~	~	V								
Boston Turning Works 617-924-4747; Fax: 617-924-4949 www.bostonturningworks.com Watertown, MA 02172	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information	~	~									Wood
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808	~	~		~							
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31	~	~		~							GFRC, GRG, FMG
Canterbury International 800-935-7111; Fax: 323-936-7115 www.canterburyintl.com Los Angeles, CA 90016	Major design/manufacturer of architectural site furnishings, clocks, sculpture, and custom products for over 40 years.	Free Write in No. 1750	~		v				V	V	V		
Carved Stone International 858-720-0276; Fax: 858-720-0272 www.carvedstoneint.com Solana Beach, CA 92075	Designer, manufacturer, importer, and wholesaler of interior and exterior architectural elements in natural hand-carved Indian sandstone.	Free Write in No. 2588	~	~		~							
Casa de Cantera, House of Stone 800-304-6135; Fax: 805-382-1057 3600 South Harbor, Suite 114 Oxnard, CA 93035	Own and operate a stone factory specializing in custom fountains, columns, moldings, fireplace mantels, and more; installation and design.	Free Write in No. 1278	~	~		~							
Chimney Pot Shoppe 724-345-3601; Fax: 724-345-8243 www.chimneypot.net Avella, PA 15312	Extensive inventory of new and antique chimney pots. Quality, hand-crafted stock imported from England includes a wide array of colors, sizes, and styles. Will ship anywhere in North America.	Free Write in No. 410	~					~					Comments
Concrete Creations 888-299-8273; Fax: 818-708-2110 6428 Yarmouth Ave. Reseda, CA 91335	Manufactures custom concrete urns and planters, handmade and reinforced with iron bars; giant urns a specialty. Also, trash receptacles, benches, fountains, ash urns, counter tops, etc., in a variety of styles.	Free Write in No. 2608	~										Concrete
Doty & Sons Concrete Products 800-233-3907; Fax: 815-895-8035 www.dotyconcrete.com Sycamore, IL 60178	Manufactures a complete line of street furnishings: litter receptacles in over 34 styles, 17 bench styles, 55 sizes of planters, bollards, table sets and custom concrete products in exposed aggregate and light sandblast finish.	Free Write in No. 2090	~										Wood, metal,
DuMor, Inc. 800-598-4018; Fax: 717-436-9839 www.dumor.com Mifflintown, PA 17059	Leading manufacturer of high-quality site furnishings, offering a complete line of benches, tables, receptacles, & planters in metal, wood, or recycled plastic, for both indoor & outdoor. Custom design & manufacturing is available.	Free Write in No. 2180	~	~							~		recycled plastic
Dura Art Stone 800-821-1120; Fax: 909-350-9632 www.duraartstone.com Fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations.	Free Write in No. 3082	~	~	~								Glasscrete
Elizabeth Street 212-644-6969; Fax: 212-644-8090 1176 Second Ave. New York, NY 10021	Antique garden ornament; custom stonework; recreations of antique garden ornament in the same methods and materials as the originals.	Free Write in No. 3001	~	~		~							Precast
Environmental Features, Inc. 248-478-2775; Fax: 248-476-5120 www.wwnet.com/~efi Northville, MI 48167	Architectural precast-concrete benches, planters, tables, outdoor furnishings, waste receptacles, tree grates, bollards, and other cast exterior elements. Custom work available.	Write in No. 278	~	~									concrete
Fairplay Stonecarvers 440-775-7878; Fax: 440-775-7979 www.fairplaystonecarvers.com Oberlin, OH 44074	Custom-designed stone and marble architectural and landscape ornament and sculpture. Reproduction, repair, and restoration of hand-carved ornamental sculpture, fireplaces, relief carvings, urns, doorways, fountains, capitals, bases. Garden ornaments fountains (freestanding and wall-mounted) statuary urns.	Free Write in No. 868	~	~		~	2						Bronze
Florentine Craftsmen 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101 Flower Framers	Garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Also, weathervanes. Custom work a specialty. Flowerhores for windows decks courtwards pools Lengths from 2 to 15 ft.	Call for more information	~	~	~					~	~	~	
Flower Framers 800-315-1805; Fax: 513-321-7269 www.flowerframers.com Cincinnati, OH 45226 Garden Art International	Flowerboxes for windows, decks, courtyards, pools. Lengths from 2 to 15 ft. or custom cut; 8-1/2 in. wide, 9 in. deep, solid fiberglass, bright white, easily paintable, self-watering, perfect drainage, hangs easily, guaranteed. Direct importer of custom and stock garden pieces in Italian terra cotta, cast	Write in No. 3850	~						~				GFRC, custom
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614 Haddonstone (USA), Ltd.	iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more. The firm's range of standard designs in reconstructed limestone offers	Write in No. 2555	~	~	~	~	~	~			~		finishes
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Write in No. 4020	~	~	~								





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Architectural Details Garden Decor Interior Decoration

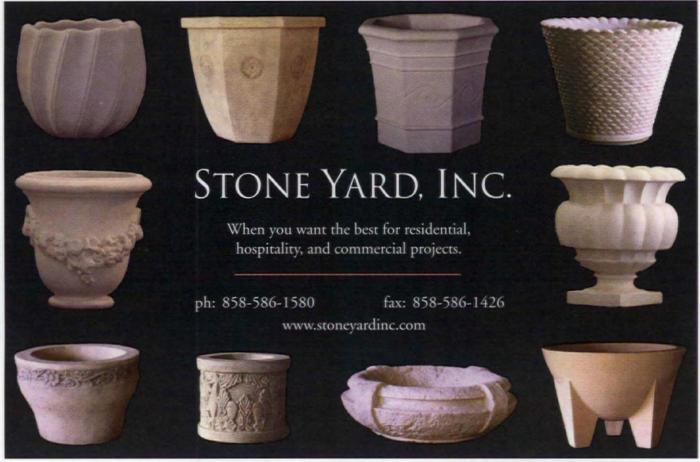


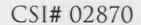


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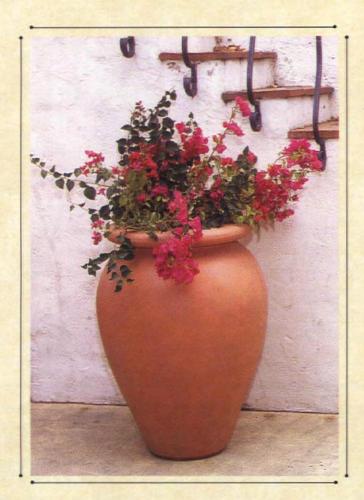


PTRADITIONAL BUILDING'S LANTERS & URNS SourceList

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature											
			Planters	Urns	Cast Stone	Natural Stone	Terra Cotta	Glazed Ceramic	FRP	Cast Aluminum	Cast Iron	Lead	Other
Henri Studio, Inc. 847-526-5200; Fax: 847-526-6782 1250 Henri Drive Wauconda, IL 60084	Designer and manufacturer of cast-stone fountains, statuary, birdbaths, planters, and garden decor. Original designs, custom capabilities.	Free Write in No. 2630	~	~	~								
Herrington Precast Inc. 530-885-5622; Fax: 530-885-8051 210 Herrington Dr. Auburn, CA 95603	Precast-concrete sand urns and planters; exposed aggregate; assorted colors; smooth or sand-blasted finishes; various sizes.	Free	~	~									Precast concrete
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210	-	~						~	~		Cast bronze
Kaleh Design Collection/Stone 310-289-9746; Fax: 310-289-9749 www.kalehdesign.com Los Angeles, CA 90048	Cast-stone planters, pots, urns, jardineres, fireplace mantels, garden objects, & fountains, as well as columns, etc. Made using European techniques; frost-freeze resistant and offered in 9 finishes & textures, plus antique finish.	Free Write in No. 3068	~	~	~								
KenCoat 888-KENCOAT; Fax: 270-259-9858 www.kencoat.com Leitchfield, KY 42754	Manufacturer of metal, plastisol-coated tables, benches, trash and ash receptacles, planters, golf-range dividers, and tree grates, available in various styles and colors.	Free Write in No. 2714	~										Plastisol
Keystone Ridge Designs 800-284-8208; Fax: 724-284-1253 www.keystoneridgedesigns.com Butler, PA 16003	Designs and manufactures site furniture, including planters, ash urns, benches, litter receptacles, table & chair sets, bike racks, and bollards. Product material: powder-coated steel.	Free Write in No. 728	~	~				-1					Steel
Le Jardin Du Louvre 609-924-2743; Fax: 609-497-2743 4451 Route 27 Princeton, NJ 08540	Source of carved-stone landscape ornament, including urns, statuary, fountains, and pavers; custom work available.	Free Write in No. 2568		~		~							
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta.	Free Write in No. 5390	-	~		~							
Lynch & Sons, Inc. 203-762-8363; Fax: 203-762-2999 www.klynchandsons.com Wilton, CT 06897	Top-of-the-line fabricators with an extensive catalog of fountain designs, garden ornament, site furniture (including full park-bench manufacturing capabilities), weathervanes, finials, and gazebos. Custom capabilities.	Free Call for more information	~	~	~							V	
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Producer of composite fiberglass molds for architectural precast concrete; columns, archways, planters, and more. Stock molds for over 100 balustrade designs. Custom molds available.	Free Write in No. 875											Molds for pr cast-concrete planters
Metalmorphosis Studios 440-275-1351; Fax: 440-275-1361 2600 Forman Rd. Austinburg, OH 44010	Architectural and sculptural metalwork for public, corporate, and residential projects. Hand-forged iron, custom fabrication in all metals; cast bronze and aluminum, repousse copper and brass. Original designs and specialty finishes.	Free Write in No. 1190	~										Forged iron, cast bronze
Milestone Architectural Ornamentation 888-851-3381; Fax: 806-381-6996 www.milestoneltd.com Amarillo, TX 79107	Lightweight, highly durable, completely natural-looking cast-stone columns. Save funds in shipping and installation. Aged or new limestone, Florida coral stone, Madeira stone.	Free Write in No. 493	~		V								Lightweight cast stone
Mills & Co. 607-832-4361; Fax: 607-832-4608 P.O. Box 9 Bovina Center, NY 13740	Custom-built planters, pergolas, and trelliswork in traditional designs, using teak, cedar, and mahogany.	Free Write in No. 6670	~										Wood
New England Garden Ornaments 508-867-4474; Fax: 508-867-8409 www.negardenornaments.com North Brookfield, MA 01535	Importer of cast architectural ornament from three English companies: Chil- stone, Haddonstone, and Yorkstone. Line includes steps and quoins, columns and pilasters, pier caps, copings, porticos, planters, temples, pavilions, cornices.	Free Write in No. 2748	~	~	~	~						~	
Nichols Bros. Stoneworks, Ltd. 800-483-5720; Fax: 425-483-5721 www.nicholsbros.com Maltby, WA 98296	Manufactures hand-cast sandstone planters and garden furnishings. Can make to order; will crate and ship to anywhere in the United States.	Free Write in No. 5980	~	~	v								
Palmetto Planters Limited 770-345-6378; Fax: 770-345-3076 www.palmettoplanters.com Holly Springs, GA 30142	Decorative fiberglass/polymer planters, urns, and trash/ash containers in standard colors plus color matching; sizes from 18 in. OD and 16 in. high to 66 in. OD and 42 in. high.	Free Write in No. 879	~	~	V				~				
Paragon Garden Art 803-254-5005; Fax: 803-254-7524 801 Huger St. Columbia, SC 29201	Importer of English and Italian cast architectural ornament, including Chilstone, Redwood, and Papine.	Free Write in No. 2751	~	~	~		~						
Petersen Mfg. Co. 800-832-7383; Fax: 712-263-5090 www.petersenmfg.com Denison, IA 51442	Manufacturer of planters, benches, and drinking fountains.	Free Write in No. 2576	~										
Quick Crete Products Corp. 909-737-6240; Fax: 909-737-7032 P.O. Box 639 Norco, CA 91760	Provides precast-concrete site furnishings in a full spectrum of colors, textures, and shapes.	Free Write in No. 2701	~	~									Precast concrete
RMI-Nevada 702-643-2644; Fax: 702-643-2641 4700 Mitchell St. N. Las Vegas, NV 89031	Source of planters and urns.	Free Write in No. 2609	~	~									
Robinson Iron Corp. 800-824-2157; Fax: 256-329-8960 www.robinson-iron.com Alexander City, AL 35011	Historic reproductions of classic Victorian lawn and garden ornament in bronze, aluminum, or iron. Custom casting available.	Free Write in No. 3240	~	~						V	~		Bronze
Rossato Giovanni, srl/Vicenza Stone Sculpture 011-39-0444-928499; Fax: 39-0444-928711 www.vicenzastone.com 36100 Vicenza, ITALY MVI 002134	Classic statues, fountains, fireplaces, consoles, columns, planters, urns, bench- seats, balls, pineapples, balustrades, vases, and more. Hand-carved in Vicenza stone. Column heights in multiples of 10 ft.	Free Write in No. 6110	~	~		~							
Seibert & Rice, Inc. 973-467-8266; Fax: 973-379-2536 www.seibert-rice.com Short Hills, NJ 07078	Source of high-quality handmade terra-cotta garden planters and ornaments from Impruneta, Italy; high-relief, fine detailing, freeze-resistant. Extensive inventory, custom capabilities.	Free Write in No. 5500	~	~			~						
Sierra Architectural Cast Stone 800-333-9302; Fax: 513-665-2005 www.sierrastone.com Cincinnati, OH 45202	Dry-cast limestone and shell-stone products; also available in FRP and cast stone, balusters, cornices, columns, door and window surrounds, and more. Exterior aggregated paint complimenting cast stone and FRP.	Free Write in No. 236	~	~	~				~				
Sitecraft, Inc. 800-221-1448; Fax: 718-482-0661 www.site-craft.com Long Island City, NY 11101	Exterior-site furnishings in redwood, cedar, and other fine exterior woods: planters, benches, trash receptacles. Custom work and custom exterior finishes available.	Free Write in No. 6730	~										Wood
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630	~		~								
Stone Yard, Inc. 619-586-1580; Fax: 619-586-1426 7455 Carroll Road San Diego, CA 92121	Source of cast-stone planters, trash receptacles, and other products.	Free Write in No. 2606	~		~								

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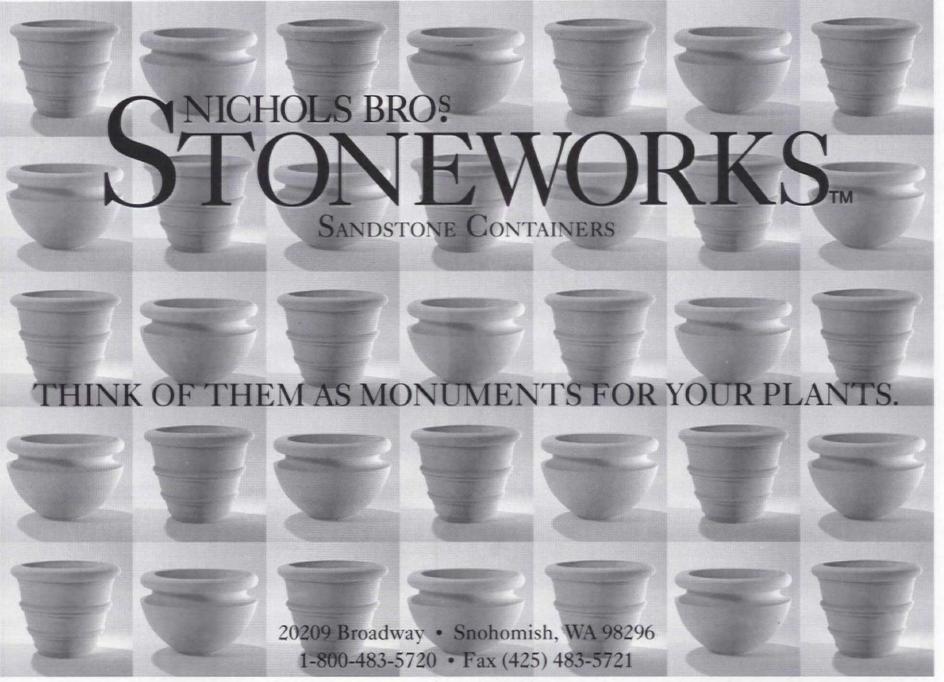
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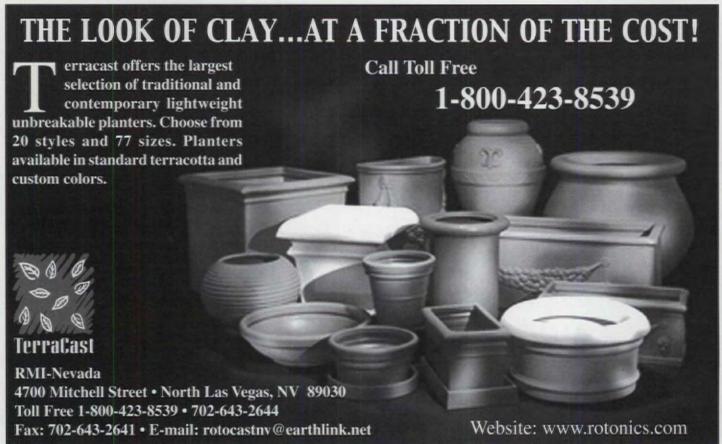


D TRADITIONAL BUILDING'S LANTERS & URNS SourceList

CSI# 02870

COMPILED BY COLE GAGNE

COMPANY SPEC	SPECIALTY		Planters		MATERIALS										
		Literature		Urns	Cast Stone	Natural Stone	Terra Cotta	Glazed Ceramic	FRP	Cast Aluminum	Cast Iron	Lead	Other		
Stonex Cast Products 732-938-2334; Fax: 732-919-0918 www.stonexonline.com Farmingdale, NJ 07727	Baluster and rail system; quoins, window sills & surrounds, wall copings, splash blocks, pier caps, and much more in cast stone; seven styles of balusters; curved railings available.	Free Write in No. 507	~		~										
Talladega Foundry 256-362-0056; Fax: 256-362-6880 www.talladegafoundry.com Talladega, Al. 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No. 3148	~	~						V	V				
Texas Metal Industries, Inc. 800-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, castaluminum fountains, lampposts, and urns.	Free Write in No. 9430	~	~						~					
Tuscan Imports 843-667-9101; Fax: Same as phone www.tuscanimports.com Florence, SC 29501	Source for hand-crafted Italian terra cotta in a variety of shapes and sizes. Suitable for commercial or residential applications. Frost-proof.	Free Write in No. 2563	~				V								
Wausau Tile, Inc. 800-388-8728; Fax: 715-355-4627 www.wausautile.com Wausau, WI 54402	Manufacturer of precast-concrete site amenities: planters, waste receptacles, bollards, ash urns, recycling containers, tables, benches, signs. Also, precast-concrete pavers in over 30 colors and terrazzo flooring in over 60 colors.	Free Write in No. 4120	~	~									Precast concrete		

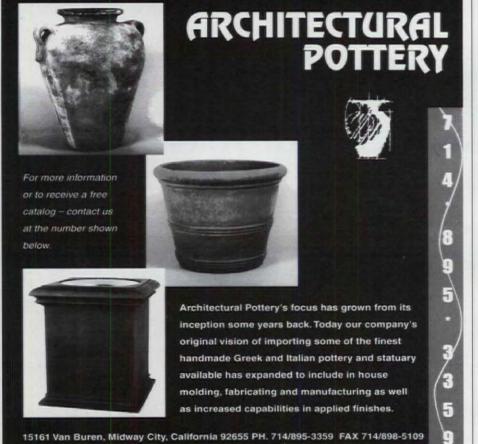


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THE ENCLOSED POSTCARD
OR USE THE COUPON ON
PAGE 211.

WRITE IN NO. 2609

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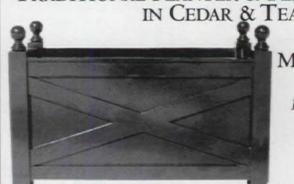


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Now Includes Self-Watering Feature

Flower Framers allows you, for the first time ever, to create "flower beds" wherever space is available using permanent, portable sections, each a complete garden in itself.

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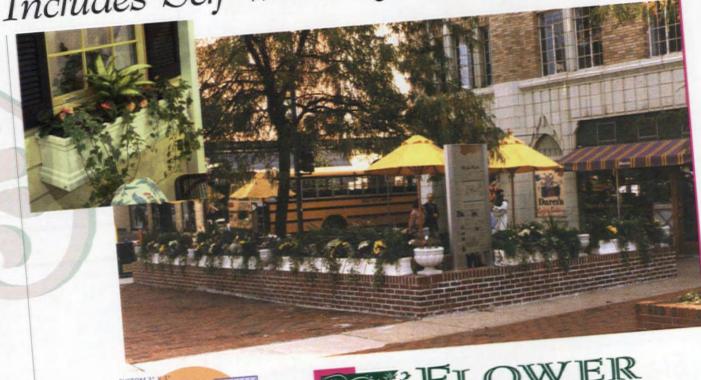
100% Satisfaction Guarantee! Easy installation - stainless steel

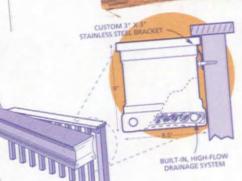
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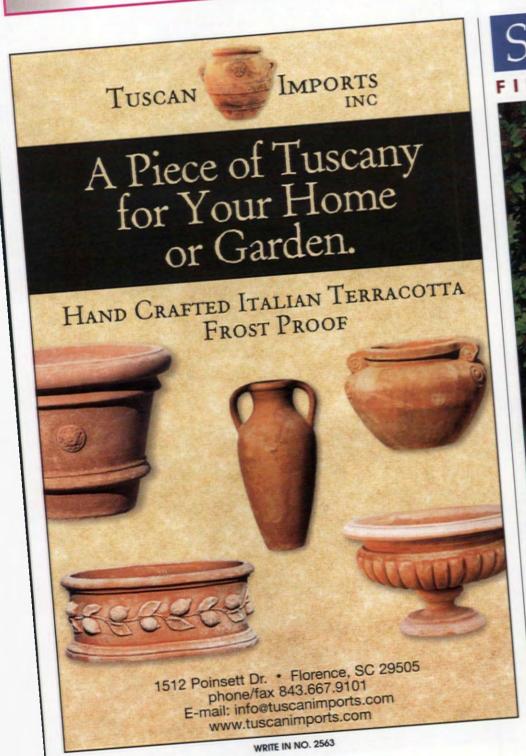
For help with your order, call

1-800-315-1805

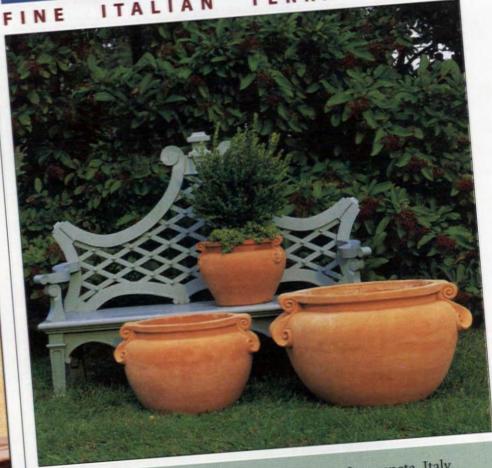
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Visit Our Web Site: www.flowerframers.com

WRITE IN NO. 3850

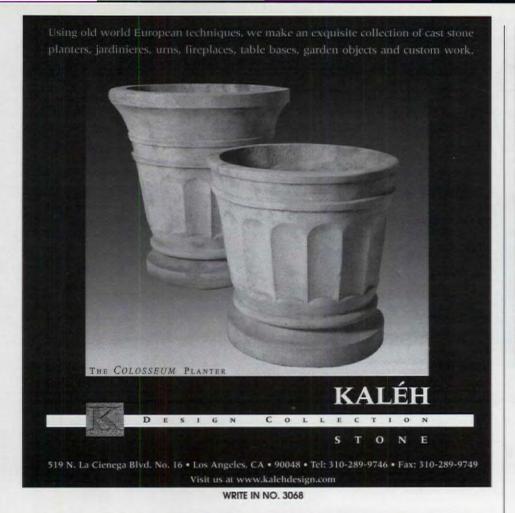


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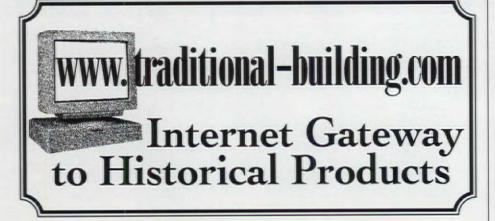




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chrome

THE MARKET IN ORNAMENTAL FENCES & GATES

A s Lou Maglio, fence designer and manufacturer at Walpole Woodworkers, once commented in the pages of *Traditional Building*, "The permutations of fence styles and detailing are virtually limitless." And he never saw the *SourceList* of Ornamental Gates & Fences which starts on page 146! From a range of fence companies in our database, the editors consolidated a listing of 74 suppliers in this large and competitive field. We've gathered together sources

of fences and gates both stock and custom, from the modest to the monumental; fencing made not just in wood, metal, and PVC, but also in cast stone and bamboo; gate automation and security systems; suppliers of railings, balustrades, hardware, and ornamental components. There are even fiberglass molds for casting fences, and a source for antique fence posts. All you have to decide is which supplier to contact.

FENCES & GATES PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 146-152.



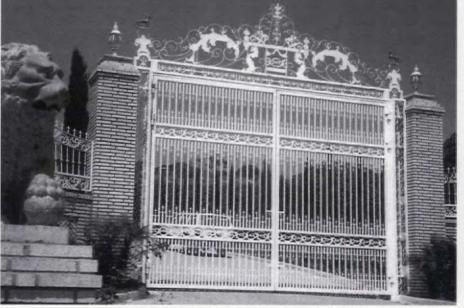
BUFFTECH's Princeton vinyl picket fencing is available in 3-, 4-, 5-, and 6-ft. heights and a white, tan, or grey finish. Write in No. 66



INDITAL, USA., offers a comprehensive range of elements for iron gates, railings, ornamentation, and, as pictured here, fencing. Write in No. 6560



Distinctive ornamental gate hardware, such as this antique bronze piece, is a specialty of BALTICA. Write in No. 411



FAAC INTERNATIONAL's model #400 heavy-duty hydraulic swing-gate operator is ideal for use on large, ornate gates in high-traffic areas. Write in No. 551



This handsome cast-iron fence was manufactured by TALLADEGA FOUNDRY for a church in Cullman, Ala. Write in No. 3148



KING SUPPLY's #64/B/2 and #48/1 balusters combine in this fence to create a delicate and ornate effect. Write in No. 418



Custom hand-forged wrought-iron gates, such as these formal, classically influenced pieces, are a specialty of OLD WORLD IRON, INC. Write in No. 332



Restoration of historic gates and fences and custom design work, such as for this fence on Commonwealth Avenue in Boston, Mass., is the specialty of DEANGELIS IRON WORK. Write in No. 1023



BAMBOO FENCER installed this fence for the Brooklyn Botanic Gardens in Brooklyn, N.Y. Write in No. 241



Ornamental Fences & Gates SourceList

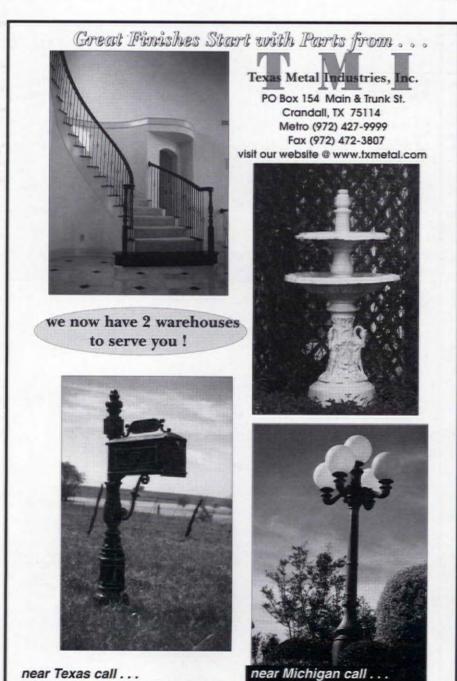
COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	Gates	Railings	Fencing	Components	Hardware	Operators	Other	Materials
Aardvark Antiques 800-446-1052; Fax: 401-849-1591 www.aardvarkantiques.com Newport, RI 02840	Grand iron gates from Newport's "Gilded Age." Hundreds of pieces available. Also fencing, window grates, balconies, and paladium grates.	Free Write in No. 718	~		~	V				Cast iron, wrought iron/steel
Acorn Forged Iron 508-339-4500; Fax: 508-339-0104 www.acornmfg.com Mansfield, MA 02048	Offers six lines of decorative door, cabinet, and bath hardware. Elizabethan-period Warwick Iron, Adobe Iron, Early American Rough & Smooth Iron, hand-forged stainless steel, and more.	Free Write in No. 1690					v			
Allen Architectural Metals, Inc. 800-204-3858; Fax: 256-761-1967 www.allenmetals.com Talladega, AL 35161	Custom ornamental metal castings, both new and replications of historical styles; available in cast and ductile iron and alloys, including aluminum and bronze.	Free Write in No. 1005	V	~	~	V				Cast iron, steel, aluminum, bronze
Am-Dia, Inc. 800-483-7105; Fax: 419-424-1822 www.victorianmarketplace.com Findlay, OH 45840	Specialist in decorative residential post- and wall-mount mailboxes that are "U.S. Postmaster" approved. Also, cast-aluminum fountains, birdbaths, Victorian-style furniture, street lighting, antique furnishings, and patio furniture.	Free Write in No. 95				V			Street furnishings	Cast aluminum
AmazingGates.com 800-234-3952; Fax: 505-898-5696 www.amazinggates.com Albuquerque, NM 87113	Manufacturer and seller of ornamental iron gates & fences, including "Systemkit," the only completely integrated gate & operator kit which needs no welding. Kit includes gate, posts, hinges, operator, & controls, all pre-fabricated.	Free	~		V	V	~	~	Telephone & video controls for gates & doors	Cast aluminum, cast iron, wrought iron/steel, stainless st
Ameristar Fence Products 800-321-8724; Fax: 918-835-0899 www.ameristarfence.net Fulsa, OK 74158	Manufacturer of specified ornamental steel and chain-link fence systems. Company's roll-forming and powder-coating technology forms the basis of strong maintenance-free fences.	Free Write in No. 2584	~	V	~	V	~			Iron
Architectural Iron Designs, Inc. 800-784-7444; Fax: 201-222-7767 www.archirondesign.com Jersey City, NJ 07306	Distributes a large selection of high-quality, hot-forged steel components for gates, fences, railings, balconies, grilles, furniture, and decorative accessories. Exclusive distributor for B. Rourke & Co.	Free Write in No. 7950	~	V	~	V				Iron
Architectural Products by Outwater, LLC 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware & lighting.	Free Write in No. 2553	~	V	~	V				Wrought iron/steel
Artist in Iron 732-560-8199; Fax: Same as phone www.artistiniron.com Liberty Corner, NJ 07938	Blacksmith artist specializes in the design and production of custom-forged bronze and wrought-iron masterpiece locks, hardware, accents, lighting, and architectural work; for high-end residential needs.	Free Call for more information	~	V	~	V	V		Custom work	Iron, bronze
Baltica 508-763-9224; Fax: 508-763-4305 www.baltica.com Mattapoisett, MA 02739	Hand-crafted, European-made architectural fittings: custom door hardware, hinge finials, lighting fixtures, switchplates, window hardware, cabinet hardware. Patented designs; authentic Gothic, Baroque. Authorized showrooms worldwide.	Free Write in No. 411					~			
Bamboo & Rattan Works, Inc. 800-422-6266; Fax: 732-905-8386 470 Oberlin Ave. S. Lakewood, NJ 08701	Custom bamboo fencing, gates, and traditional Japanese water features, such as water spouts and deer chasers; half-round bamboo for water troughs. Also, mats and boards for wall coverings (slats, bark, cloth, etc.).	Free Write in No. 5830	~		~					Bamboo
Bamboo Fencer 617-524-6137; Fax: 617-524-6100 www.bamboofencer.com Jamaica Plain, MA 02130	Bamboo products manufactured from sustainable groves planted as a tropical-rain-forest reclamation project, including fencing, gates, trellises, arbors, garden accessories, and outdoor furniture. Custom work available.	Free Write in No. 241	~		~					Bamboo
Boston Turning Works 617-924-4747; Fax: 617-924-4949 www.bostonturningworks.com Watertown, MA 02172	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information				V				Wood
Braun, J.G. Co. 800-323-4072; Fax: 847-663-0667 www.jgbraun.com Morton Grove, IL 60053	Architectural-metal supplier of bronze, aluminum, steel, and stainless steel. Traditional railings, brass railing, glass railing, decorative castings, stamped-steel ornaments, rosettes, and hollow balls.	Free Write in No. 1390	*			V				Bronze, aluminum, ir
Bubba's Anvil Works 423-334-3233; Fax: 423-334-4620 P.O. Box 392 Decatur, TN 37322	Custom metalwork in iron, chrome, stainless steel, brass, copper, bronze, and old, distressed iron. Hand-forged metal art, fabricating, antique restorations, and custom pieces, all created to spec. Custom design services, finishes.	Free Write in No. 3024	~		~	~				
Bufftech — Div. of CertainTeed 800-333-0569; Fax: 716-685-1172 www.bufftech.com Buffalo, NY 14225	Vinyl picket fences and other railing systems, all having several baluster/spindles styles available, and many with traditional finials and posts. Railing systems conform to BOCA building codes.	Free Write in No. 66	~	~	~					Vinyl
Christopher Thomson Ironworks 505-421-2645; Fax: 505-421-2618 P.O. Box 578 Ribera, NM 87560	High-end, hand-forged furniture and furnishings for corporate offices, hotel rooms, and lobbies: lamps, interior and exterior lanterns, desks, tables, fireplace accessories, drapery rods, beds, chairs, wall sconces, door hardware.	Write in No. 237	~	V			~		Artist-designed custom works	Forged steel & bronz
Coe Studios, Inc. 510-527-2950; Fax: 510-527-0103 1214 Fourth St. Berkeley, CA 94710	This metalsmith/mountaineer/nautralist does forging, hammering, repousse, and lost-wax castings in solid bronze and iron, with inspiration for his designs drawn from nature. Any style or period available.	Free Write in No. 830	~							Iron, bronze
Colonial Castings Inc. 305-688-8901; Fax: 305-688-8932 15301 N.W. 34th Ave. Miami, FL 33054	Extensive range of ornamental architectural panels, load-bearing columns, newels, fences, gates, outdoor lamps, mailboxes, and furniture.	Free Write in No. 4820	~		~					
Copper Gardens 888-431-1001; Fax: 530-432-9599 www.coppergardens.com Rough and Ready, CA 95975	Gates, arbors, lighting, fountains, & tables in organic themes. All work is custom, using their design or client's. Color drawing submitted with each proposal. Ask to see previous examples of proposed project with photo of finished result.	Free Write in No. 6770	~	~						Copper
Crescent City Iron Supply, Inc. 800-535-9842; Fax: 708-345-6664 9835 Derby Lane Westchester, IL 60154	Supplies the ornamental-iron industry with a complete line of castings, gate hardware, locks, steel forgings, stampings, furniture, & lamp posts.	Free Write in No. 1222			V	~	V	V		Cast aluminum, cast bronze, cast iron, wrought iron/steel
DeAngelis Iron Work 888-676-4766; Fax: 508-238-7757 www.deangelisiron.com South Easton, MA 02375	Custom full-service facility for the design, fabrication, and installation of all types of ornamental metalwork, including cast iron, wrought iron, bronze, brass, aluminum, stainless steel, etc.	Free Write in No. 1023	~	~	~	V	~	V		Cast aluminum, cast bronze, cast iron, wrought iron/steel, stainless steel
DecorativeIron.com 888-380-9278; Fax: 713-991-6493 www.decorativeiron.com Houston, TX 77075	Source of decorative iron components, finishing details for metalwork; components to fabricate, repair, and decorate metalwork.	Free Write in No. 3056		~	V	V	~		Complete on-line catalog with prices	Iron
Eastern Wholesale Fence Co. 631-698-0900; Fax: 631-698-6408 www.easternfence.com Medford, NY 11763	Manufacturer and distributor of standard and custom fences: wood, metal, and vinyl (PVC). Supplies to the trade only.	Free Write in No. 2804	V	~	V	V	~	V		Wood, metal, vinyl

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WRITE IN NO. 6750



WRITE IN NO. 9430





Ornamental Fences & Gates SourceList

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COMPANY	SPECIALTY	Literature	Gates	Railings	Fencing	Components	Hardware	Operators	Other	Materials
FAAC International, Inc. 800-221-8278; Fax: 307-632-8148 www.faacusa.com Cheyenne, WY 82007	Specialized manufacturer of hydraulic gate operators for swing, slide, and barrier gate systems. With automatic gate operators, homeowners can enter and exit gates without having to leave their cars.	Free Write in No. 531	9	*	F	3	H	0 1	Other	MARCA MAS
Fine Architectural Metalsmiths 845-651-7550; Fax: 845-651-7857 www.iceforge.com Chester, NY 10918	Hand-built custom driveway & garden gates and estate fencing, in forgework, fine fabrication, and fresh waterjet-cut designs. Available in looks from the classics to fresh new works from award-winning studio.	Free Write in No. 2640	~	~	~	~		,		Forged metal
Great Lakes Art Studio 312-226-6166; Fax: 312-275-0017 www.greatlakesartstudio.com Chicago, IL 60612	Landscape, architectural, and interior metalwork in contemporary and historical motifs; custom railings, gates, sculpture, and furniture in bronze, steel, aluminum, iron, and all architectural metals. Casting, patination, and more.	Free Call for more information	~	~	~	V				Cast aluminum, cast bronze, cast iron, wrought iron/steel, stainless steel
Green Mountain Gate Co. 800-853-4283; Fax: 800-956-6790 www.entrancegates.com North Attleboro, MA 02760	Complete gate-system design with custom fabrication in hand- forged metalwork and hand-crafted hardwoods. Also, low- maintenance, remote-control turnstyle package with simple installation, in solid mahogany & stainless-steel hardware.	Free Write in No. 6750	~	~			V		Decorative elements	Wrought steel, stainless steel, wood, hand-forged aluminum
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	The firm's range of standard designs in reconstructed limestone offers architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Free Write in No. 4020	~							Reconstructed limesto
Herwig Lighting 800-643-9523; Fax: 501-968-6422 www.herwig.com Russellville, AR 72811	High-quality, hand-crafted original designs since 1908. Cast- aluminum or -bronze, exterior residential, commercial, municipal lighting: wall brackets, pendants, pier- or post-lanterns. Street clocks, posts from 19 in. to 14 ft.	Free Write in No. 9130				V			Antique fence posts	
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210	~	~	~	~			Decorative elements	Cast aluminum, iron, bronze
Indital, USA 800-772-4706; Fax: 713-694-2055 www.indital.com Houston, TX 77018	Over 8,500 Italian-designed architectural steel forgings: signature rosettes, intricately designed baroque leaves, spears, and a full array of pickets that can be fabricated to create staircases, partitions, fences, etc.	Free Write in No. 6560				V				Steel
Interstate Manufacturing Assoc., Inc. 800-667-9101; Fax: 603-863-3811 169 Sunapee St., P.O. Box 808 Newport, NH 03773	Source of ornamental, heavy-duty gate and door hinges.	Free					~		Hinges	Steel, aluminum
Island Post Cap 800-555-3694; Fax: Same as phone www.islandpostcap.com Montgomery, AL 36108	National distributor of redwood, cedar, & mahogany post caps also supplies cedar & PVC arbors, pergolas, gates, finials, and deck accessories, as well as casual teak furniture. Warehouses in CT, AL, and CA.	Free Write in No. 702	~	~	~	~				Wood, PVC
J. Graney Metal Design 413-528-6744; Fax: 413-528-6749 1920 North Main St. Sheffield, MA 01257	Forged metalwork in classical and contemporary designs in various metals; gold leaf; exotic finishes. Railings, gates, entryways, furniture, lighting; design and installation service; historical restoration.	Free Write in No. 4840	~	V	~		~			Cast aluminum, cast bronze, cast iron, wrought iron/steel, stainless steel
Jefferson Mack Metal, Inc. 415-550-9328; Fax: 415-285-3365 www.mackmetal.com San Francisco, CA 94124	Hot-forged, hand-finished architectural metalwork: railings, grilles, gates, fences, sculpture, door hardware. Also, custom iron furniture, garden torches, chandeliers, more.	Free Write in No. 1079	~	~	~	~				Wrought iron/steel, stainless steel, brass, bronze
Kayne & Son Custom Hardware 828-667-8868; Fax: 828-665-8303 www.brwm.org/kayneandsoncustomhardwareinc Candler, NC 28715	Custom hand-forged steel, cast-brass/bronze functional and dummy strap hinges, H and HL hinges, bolts, latches, pulls, locks, drapery rods and hooks, sash locks. Custom restoration, reproductions; various finishes.	Free Call for more information					~			Cast bronze/brass, wrought iron/steel
King Architectural Metals 800-542-2379; Fax: 800-948-5558 www.kingmetals.com Dallas, TX 75228	Wholesale supplier of ornamental & architectural metal components for wrought-iron staircases, handrails, gates, fences, balustrades, furniture, mailboxes, doors, screens, awnings, fireplace screens. Also, aluminum lamp posts; urns.	Free Write in No. 418	~	~	~	V	~	~		Cast aluminum, cast bronze, cast iron, wrought iron/steel
Kroy Building Products, Inc. 800-933-5769; Fax: 402-362-6797 www.kroybp.com York, NE 68467	Vinyl fencing and accessories; supply fabricators with vinyl fence products to produce custom fencing.	Free Write in No. 82	~	~	~		~			Vinyl
Lake Shore Specialties 847-295-8585; Fax: 847-295-2429 P.O. Box 611 Lake Forest, IL 60045	Custom architectural components for landscapes, including fences, gates, arbors, pavilions, pergolas, site shelters, playground systems, custom bridges (pedestrian & vehicular); prefab pieces facilitate installation. Custom work.	Free Write in No. 2773	~		~	~				Wood
Lawler Foundry Corp. 205-595-0596; Fax: 205-595-0599 P.O. Box 320069 Birmingham, AL 35232	Over 1,200 ornamental metal components in cast iron & artistic steel forgings. Victorian styles, newel posts, balusters, panels, continuous designs, finials, etc., for fences, gates, railings, stairs, windows, more. Complete Catalog, \$10.	Free Write in No. 271	~		V	~				Steel
Leonard Metal Art Works 800-522-4766; Fax: 888-699-9666 619 Pennbrook Ave. Lansdale, PA 19446	Custom-designed grand security gates made by European craftspersons; Classic, Baroque, French Provincial, Modern; forged wrought iron, bronze, stainless steel. Also, custom-made grand stairs & railings in any size, style, materials.	Free Write in No. 7610	~	~	~		~	~		Wrought iron, bronze stainless steel
Liberty Ornamental Products 800-636-5470; Fax: 419-636-2365 872 E. Trevitt St. Bryan, OH 43506	Wide range of ball tops, caps, spears, shoes, etc., for fabricating fences, gates, and other ornamental metal assemblies. Parts in sizes from 1/4 to 3 in., in #3 zinc with a non-rusting pewter finish.	Free Write in No. 5340				V	~			Vinyl, zinc
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Producer of composite fiberglass molds for architectural precast concrete; columns, archways, planters, and more. Stock molds for over 100 balustrade designs. Custom molds available.	Free Write in No. 875								Fiberglass molds for fences
Metalmorphosis Studios 440-275-1351; Fax: 440-275-1361 2600 Forman Rd. Austinburg, OH 44010	Architectural and sculptural metalwork for public, corporate, and residential projects. Hand-forged iron, custom fabrication in all metals; cast bronze and aluminum, repousse copper and brass. Original designs and specialty finishes.	Free Write in No. 1190	~	-	~	~		V		Cast aluminum, cast bronze, cast iron, wrought iron/steel, stainless steel
Mison Concepts, Inc. 516-933-8000; Fax: 516-933-8002 485-33 South Broadway Mineola, NY 11801	Custom architectural metal fabricator, traditional and contemporary; stairs, railings, furniture, facades, showrooms, marquees. Design, detailing, and specialty finishes.	Free Write in No. 2740	~	-	-					Steel, stainless steel, aluminum, bronze, nickel silver
Monumental Iron Works 800-229-5615; Fax: 410-633-6506 www.mhfence.com Baltimore, MD 21224	100-year-old fence manufacturer uses traditional techniques and patterns; stocks components and assembles to order. Carries pickets as well as ornamental panels and gates. Modular designs.	Free Write in No. 6910	~	~	~	~				Iron
Mueller Ornamental Iron Works, Inc. 847-758-9941; Fax: 847-758-9945 www.ornamentaliron.net Elk Grove Village, IL 60007	Custom, hand-forged, highly decorative ornamental metalwork in iron, bronze, aluminum, and stainless steel; interior and exterior applications.	Free Write in No. 229	~	~	~	~				Wrought iron/steel, cast iron, aluminum, brass, stainless steel

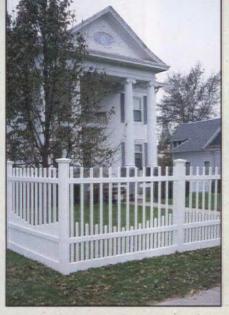
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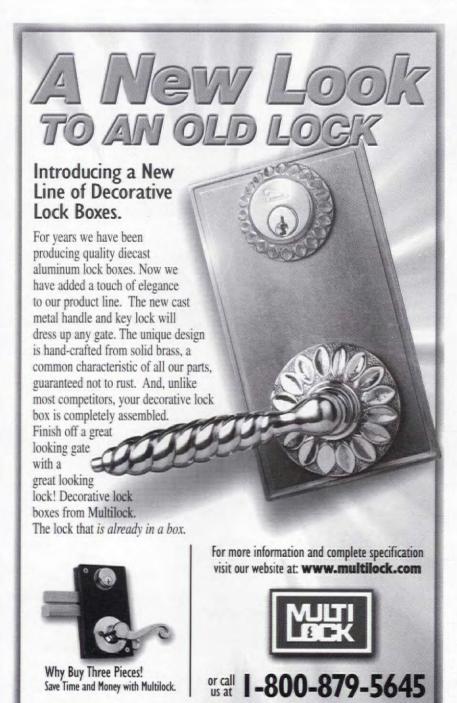


Whether your architectural style is Victorian, Queen Ann, Cape Cod or Colonial, licensed Kroy fabricators can manufacture a custom vinyl fence, porch, gazebo or pergola to compliment your buildings.

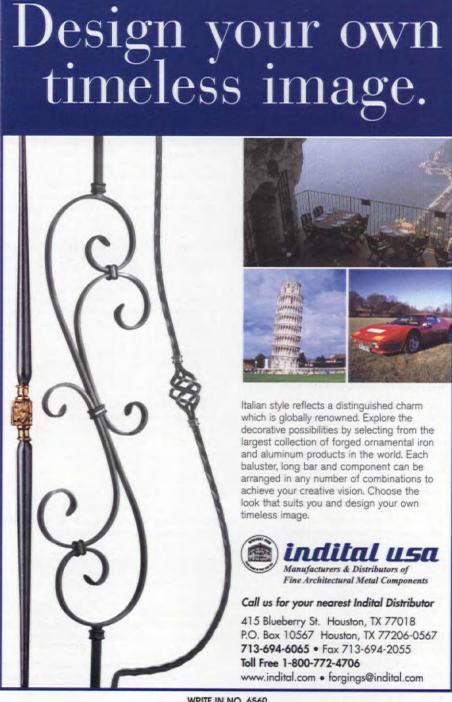
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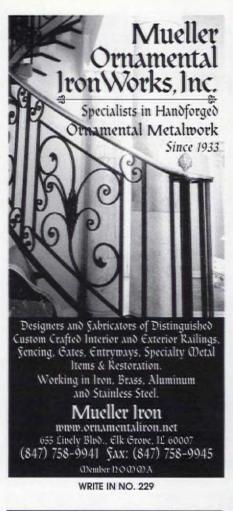




Ornamental Fences & Gates SourceList

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	Gates	Railings	Fencing	Components	Hardware	Operators	Other	Materials
Multi Lock, Inc. 954-563-2148; Fax: 954-563-5644 www.multilock.com Fort Lauderdale. FL 33307	Manufacturer of aluminum and brass ornamental iron-gate locks.	Free Write in No. 2558				Ü	~	0		Cast aluminum
New England Woodturners 860-388-1943; Fax: Same as phone www.newenglandwoodturners.com Old Saybrook, CT 06475	Hand-crafted balusters, rope and barley twist, fluting and reeding. Any wood available. Porch or interior stair. Also, fence and gate finials.	Free Write in No. 3540				~				Wood
NOMMA — Nat'l. Ornamental & Misc. Metals Assn. 404-363-4009; Fax: 404-366-1852 www.nomma.org Forest Park, GA 30297	Major trade association of over 900 metal craftspeople with goal of improving levels of professional excellence in metalwork. They will provide a list of NOMMA members in your area if you are seeking a qualified fabricator.	Free Write in No. 5170							Trade association	
Old World Iron, Inc. 972-484-9926; Fax: 972-484-9758 www.oldworldiron.com Dallas, TX 75229	Custom hand-forged wrought-iron stair railings, balconies, doors, and gates. Firm will pre-measure, deliver, install, or ship FOB Dallas.	Free Write in No. 332	~	~						Wrought iron/steel
Ornamental Metal Institute of N.Y. 212-697-5553; Fax: 212-818-0976 211 E. 43rd St. New York, NY 10017	Consultations, literature, and seminars on the design and use of architectural and ornamental metals to construction professionals; associated services provided free of charge.	Free Write in No. 5430							Technical information	
Ornamental Steel Designs, Inc. 931-552-0365; Fax: 931-645-9656 www.osdsteel.com Clarksville, TN 37040	Museum-quality line of railings, gates, furniture, and accent pieces for interior and exterior use. Custom work a specialty. Furnishes ornamental parts for fabrication.	Free Write in No. 2793	~	V						Steel
Peters & Son, Inc. 215-739-9500; Fax: 215-739-9779 1936 N. Front St. Philadelphia, PA 19122	Period-style hardware for shutters, doors, and gates in wrought steel with a black finish.	Free Write in No. 1240					~			Wrought steel
Pietrocola Iron Suppliers, Inc. 800-933-5993; Fax: 718-324-0726 www.pietrocolasons.com Bronx, NY 10466	Distributor of architectural metal components; gate and door hardware; reproductions, custom orders; showroom open by appointment.	Free Write in No. 495					V			Iron
Quality Metal Works 216-441-4357; Fax: 216-441-4433 7216 Bessemer Ave. Cleveland, OH 44127	Quality, non-ferrous metal craftsmanship serving architects, designers, and owners since 1965, specializing in copper, brass, bronze, and aluminum.	Free Write in No. 2884	~		V					Copper, brass, bronze, aluminum
Republic Fence Co. 800-4-FENCES; Fax: 818-341-9185 20920 Itasca Street Chatsworth, CA 91311	Hand-crafted wood, iron, and steel gates and fencing, custom electronic gates, ornamental iron fences.	Free	v	~	V	~	V	~		Wrought iron/steel, wood, vinyl
Robinson Iron Corp. 800-824-2157; Fax: 256-329-8960 www.robinson-iron.com Alexander City, AL 35011	Historic reproductions of classic Victorian lawn and garden ornament in bronze, aluminum, or iron. Custom casting available.	Free Write in No. 3240	~							Bronze, aluminum, iron
Safari Thatch & Bamboo 954-564-0059; Fax: 954-564-7431 www.safarithatch.com Fort Lauderdale, FL 33305	All tropical- and jungle-theming materials, including thatch bamboo, rustic bamboo and eucalyptus fencing, exotic timber, int./ext. foliage. Also, ready-to-assemble thatch and bamboo kiosks, pavilions, trellises, fences, and more.	Free Write in No. 6591			~					Bamboo
Schiff Architectural Detail 617-887-0202; Fax: 617-887-0127 120 Eastern Avenue Chelsea, MA 02150	Foundry, forge, and fabrication shop offers custom castings and non-ferrous forge work; machine-shop service, rubber molding, and pattern work. Historic restoration and refurbishment. Also, custom large-scale bowl fountains.	Free Write in No. 7730	~	~	~	~				
Sentex Systems, Inc. 818-700-9800; Fax: 818-700-5000 www.sentexsystems.com Chatsworth, CA 91311	Manufacturers of perimeter access equipment, including telephone entry, access control, and radio-frequency equipment; a large selection of gate operators available, including swing, slide, barrier, and actuator arms.	Free						~	Telephone-entry & access-control systems, radio-frequency equipment	
Stewart Iron Works Co. 606-431-1985; Fax: 606-431-2035 www.stewartironworks.com Covington, KY 41012	Manufacturer of ornamental iron fences, gates, and railings since 1886. Also, steel park benches, cast-iron furniture, custom- fabricated tables, lighting, signage, more.	Free Write in No. 9910	v	~	~					Cast iron
Sur-Fin Chemical Corp. 323-262-8108; Fax: 323-264-7734 www.sur-fin.com Los Angeles, CA 90023	Wide range of patinas for copper, brass, bronze, galvanized steel, iron, pewter, solder, and aluminum. Also, exterior/interior lacquers for metals. Outside California call toll-free: 800-282-3533.	Free Write in No. 5620							Patina finishes	
Talladega Foundry 256-362-0056; Fax: 256-362-6880 www.talladegafoundry.com Talladega, Al. 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No. 3148	V	~	~	~				Aluminum, iron
Tennessee Fabricating Co. 901-725-1548; Fax: 901-725-5954 www.tnfab.com Memphis, TN 38104	Wholesale supplier of decorative metals and hardware, specializing in cast-iron and -aluminum ornamental castings.	Free Write in No. 5180	~	~	~	~	V	~		Cast aluminum, cast iron, cast brass
Texas Metal Industries, Inc. 800-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lampposts, and urns.	Free Write in No. 9430		~	~	~	V	~		Aluminum, cast iron, steel
Tymetal Corp. 800-328-4283; Fax: 518-692-9404 www.tymetal.com Schuylerville, NY 12871	Source of ornamental fences and gates.	Free Write in No. 2564	~		~					
Walpole Woodworkers 508-668-2800; Fax: 508-668-7301 www.walpolewoodworkers.com Walpole, MA 02081	Manufacturer and retailer of high-end fencing, small buildings, furniture, and garden amenities. Over 40 standard styles of fence, as well as custom designs.	Free Write in No. 280	~	~	~	V	V	~		Wrought iron/steel, wood
Wayside Fence Co. 800-847-7789; Fax: 631-968-6928 www.waysidefence.com Bay Shore, NY 11706	Manufacturer of a complete line of custom cedar and PVC fencing, arbors, post caps, and post sleeves. Distributor of Deerfencing, Hedge It, Brattle, gate operators, aluminum fencing & chain link.	Free	~	~	~	V	~	~	Arbors, post caps, finials	Wood, vinyl, aluminum
White Oak Forge, Ltd. 540-253-5269; Fax: 540-253-5173 P.O. Box 341 The Plains, VA 20198	Artist-blacksmith uses hot-forging and traditional joinery methods to produce architectural elements such as andirons, fire tools, fences, gates, railings, balustrades, and furniture.	Free Write in No. 6300	~	~	~					Forged metals
Whitman Castings, Inc. 973-835-3671; Fax: 973-835-3698 345 Colfax Road Wayne, NJ 07470	Manufacturer of custom ornamental castings for railings, fences, and bollards in cast iron, bronze, and aluminum; from ounces to 10,000 lbs.; can duplicate original castings.	Free	~	~	~	~				Cast aluminum, cast bronze, cast iron







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Jamaica Plain, MA 02130
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Catalog \$5.00 or CD Free
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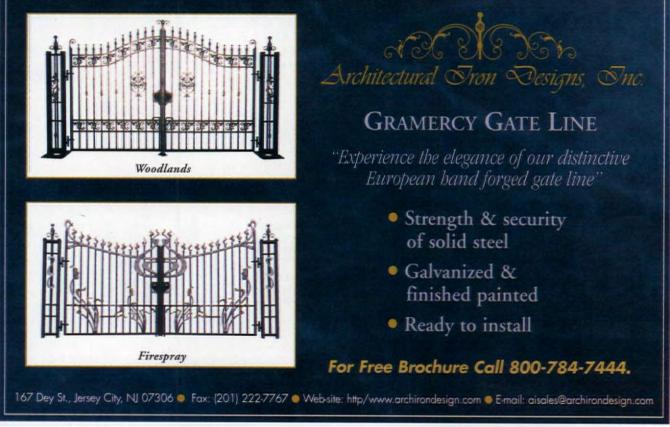
The Ornamental Metal Institute of New York 211 East 43rd Street, New York, N.Y. 10017 212-697-5554

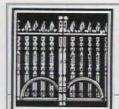
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WRITE IN NO. 2564





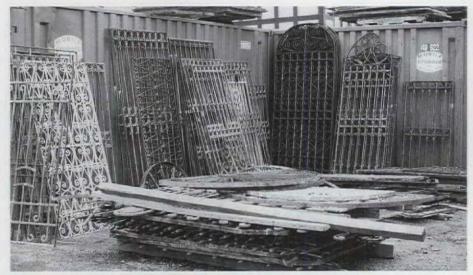
Ornamental Fences & Gates SourceList

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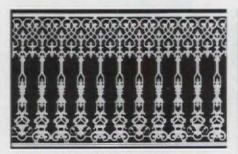
COMPANY	SPECIALTY	Literature	Gates	Railings	Fencing	Components	Hardware	Operators	Other	Materials
Wiemann Ironworks 918-592-1700; Fax: 918-592-2385 www.wiemanniron.com Tulsa, OK 74104	Since 1940, firm designs, fabricates, and installs fine forged architectural and ornamental metalwork for a national market. Residential and commercial. Custom finishes. CAD services. NOMMA's most award-winning metal fabricator.	Free Write in No. 1223	~	~	V					Forged iron
Wood Factory 936-825-7233; Fax: 936-825-1791 111 Railroad Street Navasota, TX 77868	Historically accurate millwork reproductions, interior & exterior: doors, screen doors, benches, stair parts, railings, porch parts, custom-turned column bases, newels, and more. Specialist in custom matching existing parts.	Free Write in No. 7120		~	V				Post finials	Wood

FENCES & GATES PORTFOLIO

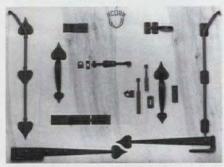
For full contact information on these companies, consult the SourceList on pp. 146-152.



The selection of grand cast- and wrought-iron gates, fencing, and fencing components available from AARDVARK ANTIQUES is extensive. Write in No. 718



The Kirribilli railing from COLONIAL CASTINGS is typical of the company's fine aluminum castings. Write in No. 4820



The vast inventory of hand-crafted hard ware at ACORN FORGED IRON includes this traditionally styled range of gate hardware. Write in No. 1690



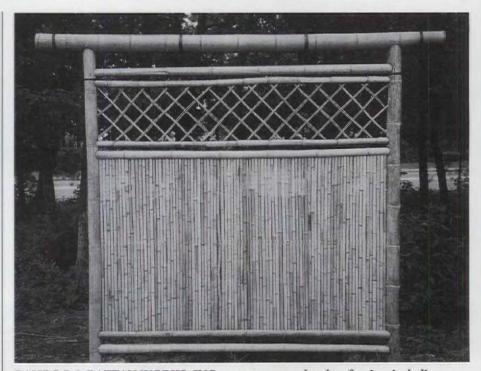
The Manhattan redwood post cap is one of four slip-over designs manufactured by ISLAND POST CAP. Write in No. 702



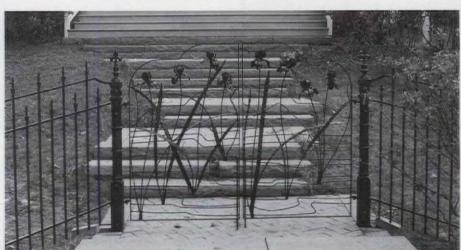
These hand-crafted bronze details were created by WIEMANN IRON WORKS as part of a forged-steel drive gate in Napa, Calif. Write in No. 1223



Pictured here is a small selection from the vast range of decorative fencing elements available from J.G. BRAUN. Write in No. 1590



BAMBOO & RATTAN WORKS, INC., creates custom bamboo fencing, including panels such as this, offering an exotic feel as well as privacy. Write in No. 5830



FINE ARCHITECTURAL METALSMITHS' forged-iron Iris Gate uses free-form verticals and horizontals to create an open feeling. Write in No. 2640



This classic scalloped picket fence was fabricated in vinyl by KROY BUILD-ING PRODUCTS, INC. Write in No. 82



These HL hinges, sliding bolt, and lock are indicative of the custom hand-forged gate hardware available from KAYNE & SON. Call 828-667-8868 for information

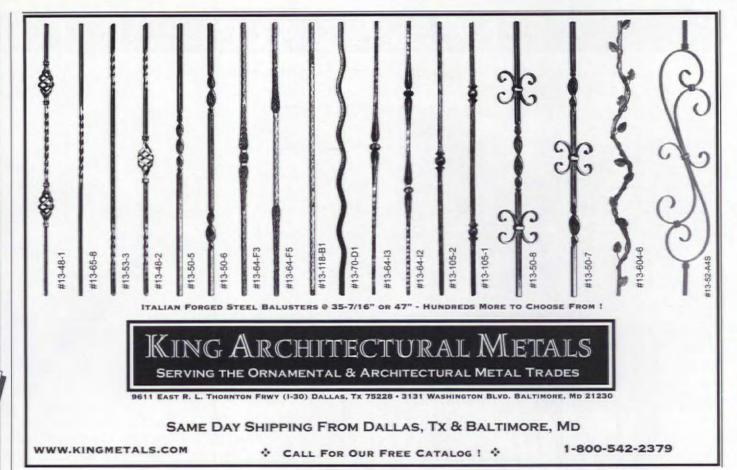


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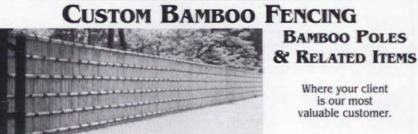
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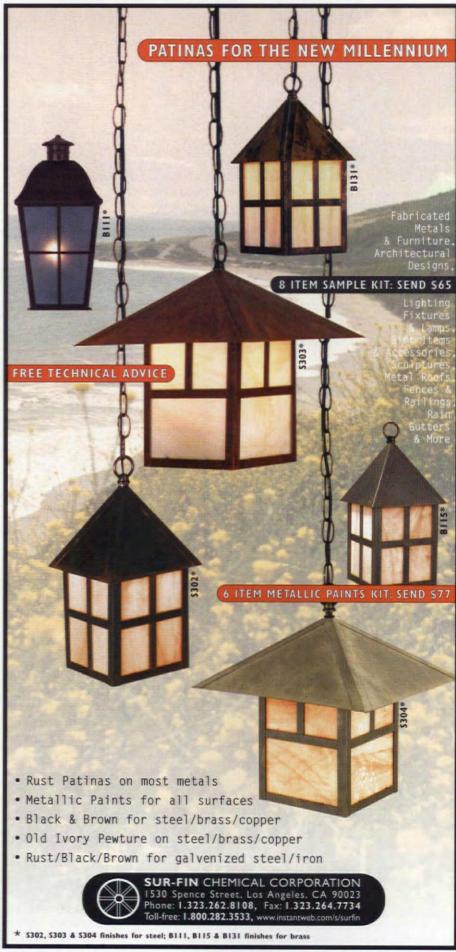
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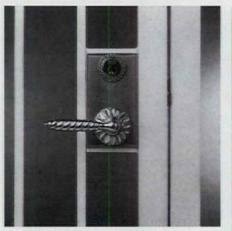


FENCES & GATES PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 146-152.



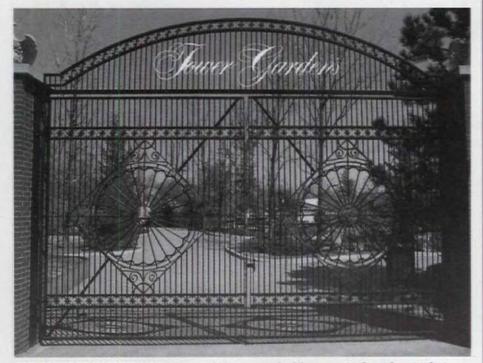
The Crane gate from ORNAMENTAL STEEL DESIGNS, INC., is fabricated from 1/4-in. steel plate and makes a lovely accent for garden paths. Write in No. 2793



The Chrysanthemum lock set from MULTI LOCK, INC., item #5046, features a double-cylinder dead-bolt lock with solid-brass passage handles and rosettes, and is ideal for ornamental metal gates. Write in No. 2558



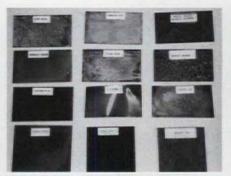
BOSTON TURNING WORKS' finials are made of kiln-dried, laminated lumber, making them ideal for fencing applications. Model #F106 is shown here. Call 617-924-4747 for information



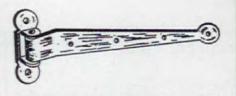
STEWART IRON WORKS fabricated these iron double gates, 20 ft. wide x 11 ft. 2-1/2 in. high, for Tower Gardens at the Kings Island amusement park in Kings Mill, Ohio. Write in No. 9910



MISON CONCEPTS used forged steel and brass to fashion this custom, classically-influenced railing. Write in No. 2740



This selection of metal finishes represents only a small part of the range of patina products available from SUR-FIN. Write in No. 5620



PETERS & SON's traditional wroughtsteel gate hinges are available in lengths from 18 in. up to 60 in. Write in No. 1240



This classic 2-in. finial, #3-200-22 from LIBERTY ORNAMENTAL PROD-UCTS, is precision die cast and designed to fit snugly on fence pickets and posts without the need for welding. Write in No. 5340



This 16-ft.-x-6-ft. driveway gate was custom-forged and welded by GRANEY & ASSO-CIATES and features an automatic operating system. Write in No. 4840



A variety of forged architectural iron components from PIETROCOLA & SONS were used in fabricating these fantasy gates. Write in No. 495



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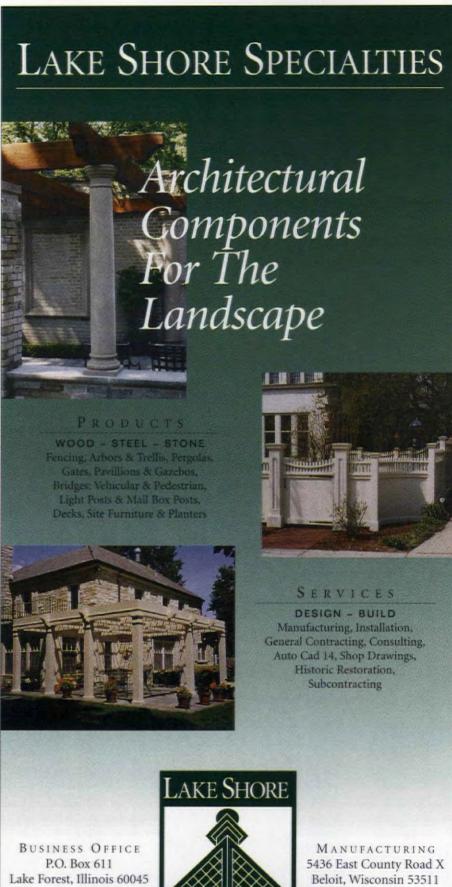
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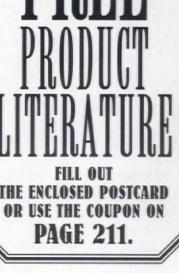


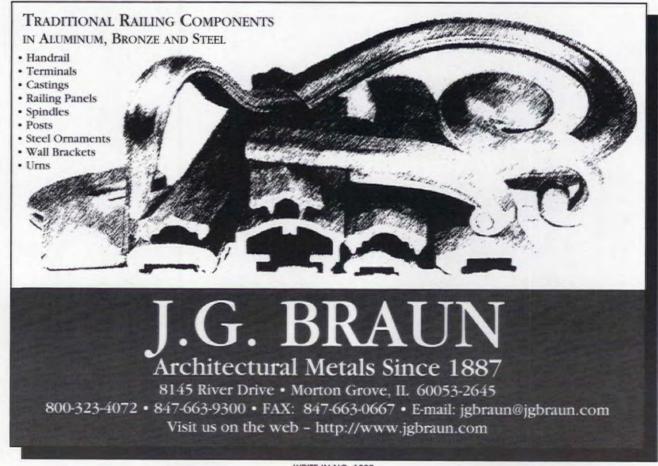
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FENCES & GATES PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 146-152.



The Imperial Style fence and gate from MONUMENTAL IRON WORKS is available in a number of railing styles with either tubular or solid-steel pickets. Write in No. 6910



The huge spectrum of post and rail designs from ARCHITECTURAL IRON DESIGNS includes this style, #145/2. Write in No. 7950



GREEN MOUNTAIN GATE COMPANY's arbored gate has a traditional appearance, but is also engineered with concealed automated operators. Write in No. 6750



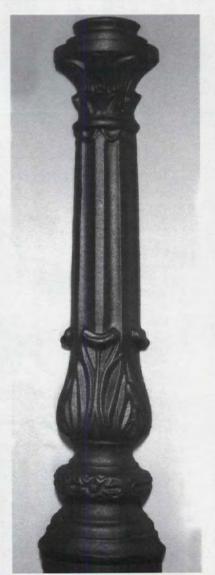
This distinctive gate was designed and manufactured by artisans at JEFFERSON MACK METAL. Write in No. 1079



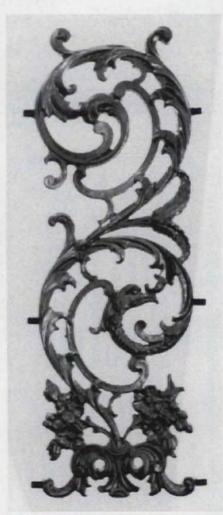
WHITE OAK FORGE's Flower gate uses strong vertical lines to accentuate the free-flowing lines of its floral decorative elements. Write in No. 6300



EASTERN WHOLESALE FENCE CO.'s range of all-PVC fencing systems includes the Classic Victorian stepped picket fence on the left and the solid t&g base with lattice top model and matching gate, on the right. Write in No. 2804



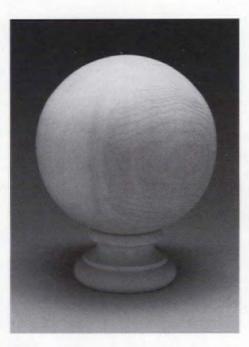
This multi-purpose post, #1553 from TENNESSEE FABRICATING CO., stands 28 in. tall x 6-1/2 in. wide and fits over a 2-in. Schedule 40 pipe. Write in No. 5180



TEXAS METAL INDUSTRIES' ornamental castings are suitable for a variety of fencing and screening applications. Write in No. 9450

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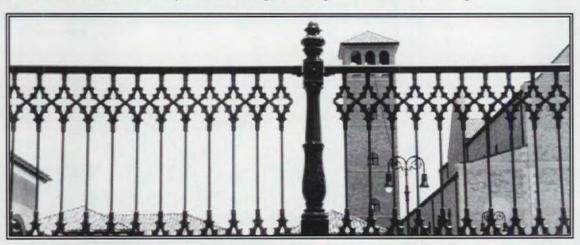
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Talladega Foundry

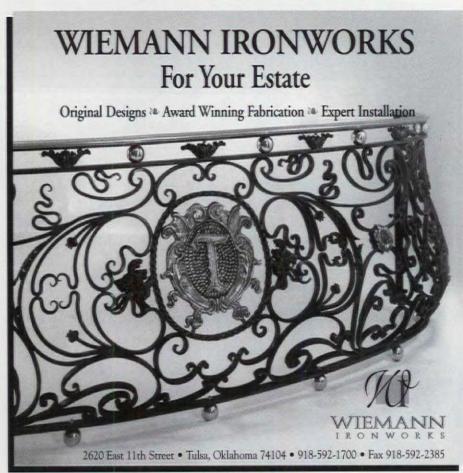
Since 1909 Talladega Foundry has specialized in custom ornamental metal castings for architectural and design professionals. As we enter the 21st century this tradition continues. Talladega Foundry offers various cast alloys, including

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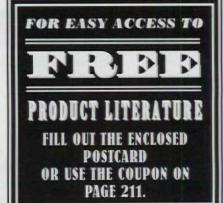
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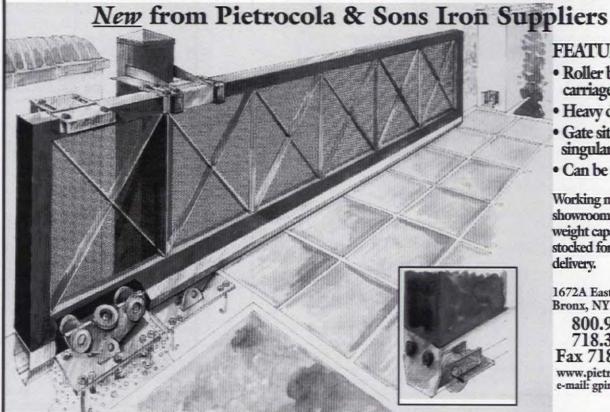


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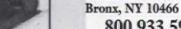


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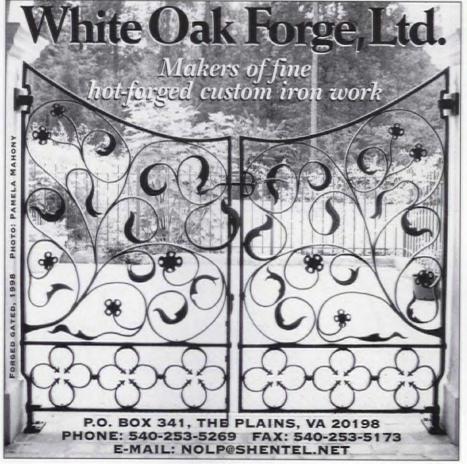
delivery.

Heavy duty guides

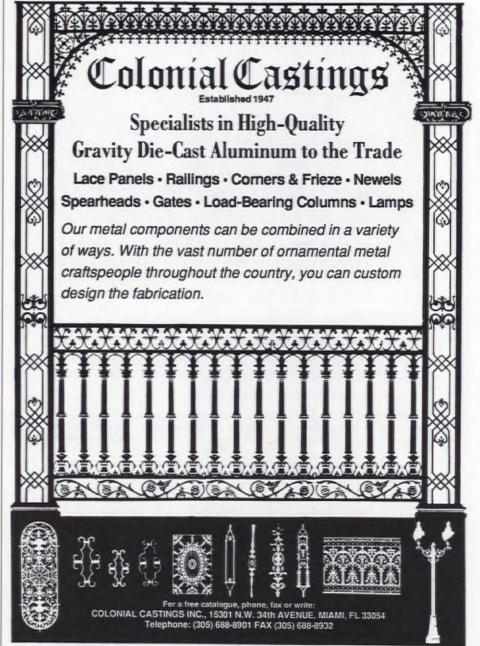
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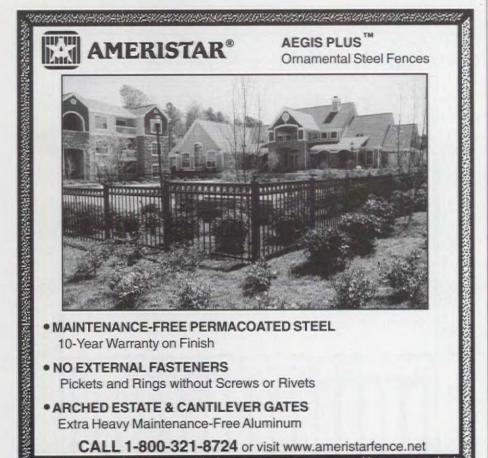
We offer a wide variety of products including gates, railing, furniture parts, signs and accent pieces. Choose from our standard products or create your own!



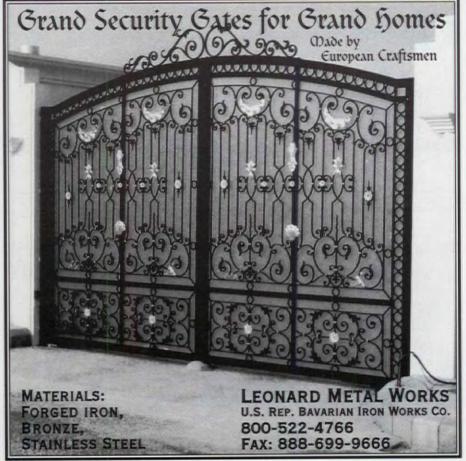
Ornamental Steel Designs, Inc.

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WRITE IN NO. 2793



WRITE IN NO. 2584





WRITE IN NO. 1222

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WRITE IN NO. 1340

When contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building." - The Editors

CHOOSING BALUSTRADES

he balustrades that help define a balcony, roofline, or stairway may seem ornamental, but they nevertheless fulfill an important function that goes beyond holding up a handrail. They provide a sense of stability, security, and permanence — and that sense can be most welcome when you're perched on a balcony, gazing out over a roofline, or standing at the top of a flight of stairs. Selecting the proper balustrade system for a particular architectural application, however, is seldom a stable or secure experience. Once you've decided on the necessary dimensions, quantity, and

design style, other questions remain. Should the balustrade be carved stone or cast? Or made of metal or wood or a composite? Does the situation require load-bearing balustrades, or can non-structural elements be used instead? Does the balustrade source also supply rails or newel posts or treads? With the *SourceList* below and continuing on page 162, the editors of *Traditional Building* have taken the worry out of balustrade specification. From the field of suppliers, we refined a listing of 38 companies who can meet whatever balustrade need you may have.



CAST & CARVED BALUSTRADES SourceList

				Ba	lustra	de M	laterials	Ba	lustra	ade Pa	arts	
COMPANY	SPECIALTY	Literature	Natural Stone	Cast Stone	Composites	Wood	Other	Treads	Balusters	Rails	Newel Posts	% Custor
A&M Victorian Decorations, Inc. 626-575-0693; Fax: 626-575-1781 2411 Chico Ave. South El Monte, CA 91733	Manufactures many architectural elements in either gypsum or precast concrete: columns, molding, mantels, balustrades, wall caps, pavers, quoins, stair treads, planters, fountains, and gazebos; custom designs and finishes.	Free Write in No. 7470		~			Precast concrete	~	~	~		50%
Architectural Facades Unlimited 408-846-5350; Fax: 408-846-6911 www.archifacades.ebb.net Gilroy, CA 95020	Interior/exterior precast architectural ornament. On-site, full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, mantels, & fountains. Cement, plaster, GFRC, GFRG; available in 15 standard colors.	Free Write in No. 1470		~			Cement, plaster, GFRC, GFRG		~	~		25%
Architectural Fiberglass Corp. 800-439-2000; Fax: 516-842-4790 1395 Marconi Blvd. Copiague, NY 11726	Reproduction of original ornamentation, or replacement from a large selection of stock styles and sizes; lightweight, easy-to-install FRP; molded-in colors and texture; class-I fire-retardant material.	Free Write in No. 6400					FRP	~	~	~	~	75%
Architectural Iron Designs, Inc. 800-784-7444; Fax: 201-222-7767 www.archirondesign.com Jersey City, NJ 07306	Distributes a large selection of high-quality, hot-forged steel components for gates, fences, railings, balconies, grilles, furniture, and decorative accessories. Exclusive distributor for B. Rourke & Co.	Free Write in No. 7950					Iron		~	~		5%
Architectural Pottery 888-ARCH-POT; Fax: 714-898-5109 www.arcat.com Midway City, CA 92655	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20	~				Terra cotta, FRG, GFRC		~			10%
Architectural Products by Outwater, LLC 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 35,000 ready-to-ship standard & innovative building-component product essentials that include int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware & lighting.	Free Write in No. 2553			~		Wrought iron		V	~	V	0%
Soston Turning Works 517-924-4747; Fax: 617-924-4949 www.bostonturningworks.com Watertown, MA 02172	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information				~			V		~	80%
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808	~						~			75%
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31	~	~				~	~	v	~	100%
Carved Stone International 858-720-0276; Fax: 858-720-0272 www.carvedstoneint.com Solana Beach, CA 92075	Designer, manufacturer, importer, and wholesaler of interior and exterior architectural elements in natural hand-carved Indian sandstone.	Free Write in No. 2588	V						~			25%
Cathedral Stone Products, Inc. (10-782-9150; Fax: 410-782-9155 vww.jahnmortars.com Hanover, MD 21076	Jahn restoration-mortar manufacturer. Compatible patching mortars for the repair of any masonry surface. Cementitious, non-polymer mortars are breathable at any thickness, easy to apply. Standard and custom colors available.	Free Write in No. 9580					Restoration mortar					0%
Classic Architectural Specialties 800-662-1221; Fax: 972-552-9054 vww.casdesign.com Forney, TX 75126	Full-service supplier of architectural components, furnishing complete packages for period commercial exteriors, from millwork to street lighting.	Free Write in No. 4200					High-density foamed polymer		~		~	50%
Concrete Designs Inc. 600-279-2278; Fax: 520-624-3420 650 S. Broadmont Dr. Fucson, AZ 85713	Manufactures over 1,600 precast-concrete and GFRC items, including moldings, door and window surrounds, balustrades, columns, mantels, and site furnishings. Also, GFRC details; custom work available.	Free Write in No. 5190					Precast concrete, GFRC		~			10%
OMS Studios 718-937-5648; Fax: 718-937-2609 www.dms-studios.com ong Island City, NY 11101	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free, Write in No. 9100 for Mantels, No. 262 for Sculpture	V					~	~	~	~	90%
Oura Art Stone 600-821-1120; Fax: 909-350-9632 www.duraartstone.com fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations.	Free Write in No. 3082		~			GFRC	~	~	~	~	50%
invironmental Features, Inc. 48-478-2775; Fax: 248-476-5120 www.wwnet.com/~efi forthville, MI 48167	Architectural precast-concrete benches, planters, tables, outdoor furnishings, waste receptacles, tree grates, bollards, and other cast exterior elements. Custom work available.	Free Write in No. 278					Precast concrete		~			50%
ieldstone Center Inc. 100-633-6075; Fax: 770-483-9255 www.fieldstonecenter.com conyers, GA 30012	Supplier of stone and masonry products, including such natural stones as granite, bluestone, limestone, and slate, and cast-stone items such as balustrades, keystones, quoins, and columns. Custom orders accepted.	Free Write in No. 2592	V	V					~			75%



CAST & CARVED BALUSTRADES SourceList

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	Natural Stone	Cast Stone	Composites	Wood	Other	Treads	Balusters	Rails	Newel Posts	% Custom
Fine Architectural Metalsmiths 845-651-7550; Fax: 845-651-7857 www.iceforge.com Chester, NY 10918	Hand-built custom balusters and railings in forgework, fine fabrication, and fresh waterjet-cut designs. Available in looks from the classics to fresh new works from award-winning studio.	Free Write in No. 2640					Iron		V	~		100%
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 2555	V	~			GFRC		~			10%
Goodwin Associates 716-248-3320; Fax: 716-387-0153 P.O. Box 18605 Rochester, NY 14618	Balustrade systems, columns, column covers, pilasters, capitals, and bases; interior and exterior applications; available in fiberglass, wood, polyurethane, cultured marble, and Forton MG; custom designs and sizes.	Free Write in No. 806			~	~	Fiberglass		~	~	~	50%
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	The firm's range of standard designs in reconstructed limestone offers architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Free Write in No. 4020		~				V	V	~	~	25%
Indital, USA 800-772-4706; Fax: 713-694-2055 www.indital.com Houston, TX 77018	Over 8,500 Italian-designed architectural steel forgings: signature rosettes, intricately designed baroque leaves, spears, and a full array of pickets that can be fabricated to create staircases, partitions, fences, etc.	Free Write in No. 6560					Steel		~	~	~	15%
Larsen Products Corp. 800-633-6668; Fax: 301-776-2723 www.larsenproducts.com Jessup, MD 20794	Surface-applied bonding agents for interior and exterior applications of plaster; acrylic admixture to modify portland cement, plaster, and mortar.	Free Write in No. 226					Bonding agents					10%
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta.	Free Write in No. 5390	~						V			100%
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Producer of composite fiberglass molds for architectural precast concrete; columns, archways, planters, and more. Stock molds for over 100 balustrade designs. Custom molds available.	Free Write in No. 875					Molds for precast concrete	~	V	V	V	50%
Manor Style, Ltd. 800-325-2188; Fax: 410-298-0848 6741 Whitestone Rd. Baltimore, MD 21207	Architectural columns, decorative capitals, & balustrade systems produced in fiberglass, load-bearing composites, preformed polymers, & wood. Stock column sizes: 8-, 10-, 12-in. dia.; special sizes, 14 to 48 in. up to 30 ft. high.	Free Write in No. 703					Preformed polymer, FRP, rigid PVC		V	V	~	40%
Melton Classics, Inc. 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com Lawrenceville, GA 30042	Balustrades, columns, & architectural ornamentation in cast stone, synthetic stone, fiberglass, or polyurethane. MarbleTex balustrades have integral coloration and require no painting. Radius stairs, radius railings, & custom baluster designs available.	Free Write in No. 4100		~		~	Fiberglass		V			100%
Milestone Architectural Ornamentation 888-851-3381; Fax: 806-381-6996 www.milestoneltd.com Amarillo, TX 79107	Lightweight, highly durable, completely natural-looking cast-stone columns. Save funds in shipping and installation. Aged or new limestone, Florida coral stone, Madeira stone.	Free Write in No. 493		~			Lightweight cast stone		~	~	~	85%
New England Garden Ornaments 508-867-4474; Fax: 508-867-8409 www.negardenornaments.com North Brookfield, MA 01535	Importer of cast architectural ornament from three English companies: Chilstone, Haddonstone, and Yorkstone. Line includes steps and quoins, columns and pilasters, pier caps and copings, porticos, temples and pavilions, cornices.	Free Write in No. 2748	~	V					~	~		10%
New England Woodturners 860-388-1943; Fax: Same as phone www.newenglandwoodturners.com Old Saybrook, CT 06475	Hand-crafted balusters and newels for stairbuilding; rope and barley twist, fluting and reeding. Any wood available. Porch or interior stair.	Free Write in No. 3540				~			V		V	100%
Paragon Garden Art 803-254-5005; Fax: 803-254-7524 801 Huger St. Columbia, SC 29201	Importer of English and Italian cast architectural ornament, including Chilstone, Redwood, and Papine.	Free Write in No. 2751				~					~	10%
Rossato Giovanni, srl/ Vicenza Stone Sculpture 011-39-0444-928499; Fax: 39-0444-928711 www.vicenzastone.com 36100 Vicenza, ITALY MVI 002134	Classic statues, fountains, fireplaces, consoles, columns, bench-seats, balls, pineapples, balustrades, vases, and more. Hand-carved in Vicenza stone. Column heights in multiples of 10 ft.	Free Write in No. 6110	~						~			30%
Royal Corinthian 888-265-8661; Fax: 630-876-3098 www.royalcorinthian.com Wheaton, IL 60189	Manufactures columns, balusters, and rails in synthetic polymer/stone materials.	Free Write in No. 76					Polymer/stone		~	~	~	25%
Steptoe & Wife Antiques, Ltd. 800-461-0060; Fax: 416-780-1814 www.steptoewife.com Toronto, ON, CANADA M6B 1V9	Victorian-style cast-iron spiral & straight staircases & railings; commercial/residential, interior/exterior; finials; custom & stock components; gates & railings to order; brass, bronze, aluminum, stainless. Also, drapery hardware.	Free Write in No. 470					Cast iron, cast aluminum, forged iron	V	V	~	V	20%
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630		-				~	~			25%
Stonex Cast Products 732-938-2334; Fax: 732-919-0918 www.stonexonline.com Farmingdale, NJ 07727	Baluster and rail system; quoins, window sills & surrounds, wall copings, splash blocks, pier caps, and much more in cast stone; seven styles of balusters; curved railings available.	Free Write in No. 507					Precast concrete	~	~	~	~	70%
Style-Mark, Inc. 800-446-3040; Fax; 419-445-4440 www.style-mark.com Archbold, OH 43502	Rigid high-density polyurethane millwork and building accents: exterior and interior moldings, porch panels, spandrel sections, gingerbread, louvers, door trims, ceiling medallions. 'E-Vent' moldings serve as soffit ventilation.	Free Write in No. 553			~		High-density polyurethane		~	~	~	10%
Third Coast Imports 210-804-1239; Fax: 210-805-8308 www.thirdcoastimports.com San Antonio, TX 78209	Over 20 years' experience with natural quarry stone, specializing in fireplaces, columns, balustrades, pool coping, flooring, and other architectural items. Colors include white, pink, gray, brown, orange, black, and beige.	Free Write in No. 1281	~						~			70%

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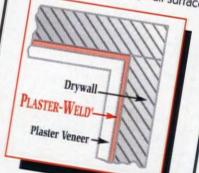
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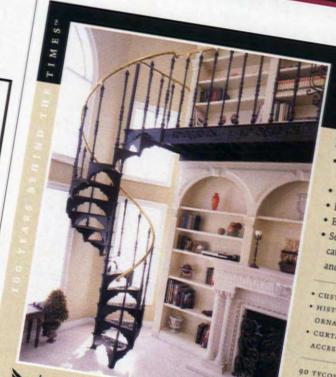
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Reference number: TRBSLIN-0300

WRITE IN NO. 9580

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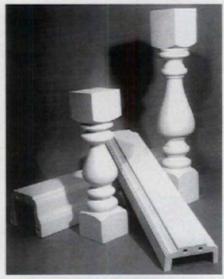


"If hen contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building."

— The Editors

CAST & STONE BALUSTRADES PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 161-162.



This high-density-polyurethane balustrade and rail system is one of many available from ARCHITECTURAL PRODUCTS BY OUTWATER. Write in No. 2553



LARSEN PRODUCTS CORP. manufactures Weld-Crete, a bonding agent ideal for use in the repair and restoration of concrete balustrades. Write in No. 226



The elegant Windsor modular cast-iron baluster from STEPTOE & WIFE ANTIQUES stands 38 in. high and features an adjustable saddle in either cast brass or aluminum. Write in No. 470



CATHEDRAL STONE PRODUCTS, INC., offers Jahn restoration motars, injection grouts, and, as pictured, training workshops in masonry restoration. Write in No. 9580



TOWNE HOUSE RESTORATIONS fabricated these balustrades in cast stone and GFRC for the restoration of the Ansonia Hotel in New York City. Write in No. 545



STONEX CAST PRODUCTS, INC., manufactures precast-concrete balustrade systems, with four baluster options and various pier and top-rail choices. Shown here are their #S630 baluster and #S640 top rail. Write in No. 507

SourceList 165-170 Portfolio 172-174

THE CURRENT TIDE OF WATER FEATURES

wo parts hydrogen and one part oxygen yield water; add imagination to the recipe — plus a healthy dollop of craftsmanship — and you have water features. Our *SourceList* starting on page 165 is your best guide to specifying what you need from this ramified and ever-expanding category. Our compilation of 78 suppliers of course includes many of the most respected sources in the field of fountains, both complete units (new and antique) and fountain-engineering and -consulting services; but the field of water features is no more limited to fountains than Baskin-Robbins is limited

to chocolate. The growing love of carefully designed and constructed waterfalls and ponds is also represented, from the requisite liners and pumps and filters to the artificial rocks — and natural-stone elements — which help shape them. We've listed sources of aquatic plants, designers of underwater lighting effects, and makers of fountain statuary, so you can guarantee that your water feature, however traditional, is also a unique statement. There are even suppliers of winterizing materials, so you can keep on making that statement all year long.

3/11(TRADITIONAL BUITER FEATURES D BY COLE GAGNE	& FO	Ĭ	JN	T	'A	I	NS	3.5	So	u	ır	C	el	List
COMPANY	SPECIALTY	Literature	Artificial Boulders	Waterfalls	Filters	Engineering	Underwater Lighting	Stone Elements	Plants	Pond Liners	Sculpture	Fountains	Water-Control Devices	Winterizing Materials	Other
A&M Victorian Decorations, Inc. 626-575-0693; Fax: 626-575-1781 2411 Chico Ave. South El Monte, CA 91733	Manufactures many architectural elements in either gypsum or precast concrete: columns, molding, mantels, balustrades, wall caps, pavers, quoins, stair treads, planters, fountains, and gazebos; custom designs and finishes.	Free Write in No. 7470	Arti	Wai	Filt	Eng	Und	Stor	Plan	Pon	Scu	Fou	Wat	Win	
Aardvark Antiques 800-446-1052; Fax: 401-849-1591 www.aardvarkantiques.com Newport, RI 02840	Grand iron gates from Newport's "Gilded Age." Hundreds of pieces available. Also fencing, window grates, balconies, and paladium grates.	Free Write in No. 718										~			
Acquabella Fountains 310-399-8256; Fax: 310-828-6585 2118 Wilshire Blvd., Ste. 1048 Santa Monica, CA 90403	Designs, builds, and restores all types of fountains, ponds, and streams; specializes in the restoration of antique fountains in courtyards and other public/private spaces.	Free				V									
Allen Architectural Metals, Inc. 800-204-3858; Fax: 256-761-1967 www.allenmetals.com Talladega, AL 35161	Custom ornamental metal castings, both new and replications of historical styles; available in cast and ductile iron and alloys, including aluminum and bronze.	Free Write in No. 1005										~			
Am-Dia, Inc. 800-483-7105; Fax: 419-424-1822 www.victorianmarketplace.com Findlay, OH 45840	Specialist in decorative residential post- and wall-mount mailboxes that are "U.S. Postmaster" approved. Also, cast- aluminum fountains, birdbaths, Victorian-style furniture, street lighting, antique furnishings and patio furniture.	Free Write in No. 95										~			
AquaMaster Fountains & Aerators 800-693-3144; Fax: 920-693-3634 www.aquamasterfountains.com Kiel, WI 53042	Manufacturer of fountain aerators which aid the decomposition of organic solids and prevent algae blooms. Available in 8 different spray patterns, 0.5- to 10-HP. motors; all 1-HP. and larger motors have a 3-year warranty.	Free Write in No. 461				~	V					~			
Aquarium Pharmaceuticals 800-847-0659; Fax: 215-882-1906 www.pondcare.net Chalfont, PA 18914	Manufactures over fifty "Pond Care" pond-maintenance products. Also, three "Fountain Care" products: White Scale Control, Algae Destroyer Liquid, and Anti-Foam, designed to solve the three major problems facing fountain owners.	Free			~							~			Pond- maintenance products
Aquarius Waterworks, Inc. 845-226-4610; Fax: 845-226-6741 115 Jackson Road Hopewell Junction, NY 12533	Engineers, designs, and builds custom fountains, waterfalls, waterwalls, water effects, ponds and streams. Construction of full-size mock-ups; restoration & repair of existing and antique structures and systems; consulting services.	Free Write in No. 900		v	V	~	V					~	~		
Aquatic Development Group 518-783-0038; Fax: 518-783-0474 www.aquaticgroup.com Cohoes, NY 12047	Complete waterpark, wavepool, and aquatic attraction design and building services.	Free			~										Complete waterpark design and build services
Arcadia Ceramics 800-754-9312; Fax: 800-754-9318 www.arcadia-ceramics.com Corona, CA 91719	Manufacturer of hand-crafted ceramic wall fountains; stone and ceramic tabletop fountains.	Free Write in No. 1326										~			
Architectural Facades Unlimited 408-298-2758; Fax: 408-297-8014 www.archifacades.ebb.net Gilroy, CA 95020	Interior/exterior precast architectural ornament. On-site, full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, mantels, & fountains. Cement, plaster, GFRC, GFRG; available in 15 standard colors.	Free Write in No. 1470										~			
Architectural Pottery 888-ARCH-POT; Fax: 714-898-5109 www.arcat.com Midway City, CA 92655	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20										~			
Artist in Iron 732-560-8199; Fax: Same as phone www.artistiniron.com Liberty Corner, NJ 07938	Blacksmith artist specializes in the design and production of custom-forged bronze and wrought-iron masterpiece locks, hardware, accents, lighting, and architectural work; for high- end residential needs.	Free Call for more information									~	~			
ArtStone by Gabriel Cortez 888-482-6099; Fax: 905-849-1907 www.pathcom.com/~artstone Oakville, ON, CANADA L6H 3W5	Firm combines art of mosaic with contemporary design to hand-craft original & custom compositions with natural stone for waterfalls, murals, benches, birdbaths, & floors. Features full texture of stone, rock, & pebbles.	Catalog, \$5 Write in No. 2583		~				~				~			Water walls
Bamboo & Rattan Works, Inc. 800-422-6266; Fax: 732-905-8386 470 Oberlin Ave. S. Lakewood, NJ 08701	Custom bamboo fencing, gates, and traditional Japanese water features, such as water spouts and deer chasers; half-round bamboo for water troughs. Also, mats and boards for wall coverings (slats, bark, cloth, etc.).	Free Write in No. 5830										~			Traditional Japanese water features
Brass Baron 800-536-0987; Fax: 800-536-0988 www.brassbaron.com San Diego, CA 92121	Solid-brass garden fountains and statuary, individually hand- cast by the lost-wax method; verdigris- or bronze-patina finishes.	Free Write in No. 200										~			
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808										~			



WATER FEATURES & FOUNTAINS SourceList

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COMPANY	SPECIALTY	Literature	Artificial Boulders	Waterfalls	Filters	Engineering	Underwater Lighting	Stone Elements	Plants	Pond Liners	Sculpture	Fountains	Water-Control Devices	Winterizing Materials	Other
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31									~	~			
Canterbury International 800-935-7111; Fax: 323-936-7115 www.canterburyintl.com Los Angeles, CA 90016	Major design/manufacturer of architectural site furnishings, clocks, sculpture, and custom products for over 40 years. Email: canterburyinc@earthlink.net	Free Write in No. 1750										~			
Carlyle Bobby K., Sculptures in Bronze 303-841-4334; Fax: 303-841-4280 www.thespace.com/carlyle Parker, CO 80134	Sculptor makes limited-edition, cast-bronze sculpture, bas reliefs, and also some fountains. Can work with individual designers, architects, and public entities for commissions of new work, from small to monumental.	Free Write in No. 2611									~	~			
Carved Stone International 858-720-0276; Fax: 858-720-0272 www.carvedstoneint.com Solana Beach, CA 92075	Designer, manufacturer, importer, and wholesaler of interior and exterior architectural elements in natural hand-carved Indian sandstone.	Free Write in No. 2588										~			
Casa de Cantera, House of Stone 800-304-6135; Fax: 805-382-1057 3600 South Harbor, Suite 114 Oxnard, CA 93035	Own and operate a stone factory specializing in custom fountains, columns, moldings, fireplace mantels, and more; installation and design.	Free Write in No. 1278										~			
Chemtrol, A Div. of Santa Barbara Control Sys. 800-621-2279; Fax: 805-683-1893 www.sbcontrol.com Santa Barbara, CA 93111	The 'Chemtrol' line of 210 ORP/pH Controllers, which use electronic sensors to monitor the pH of the water in fountains & the Oxidation-Reduction Potential (ORP or Redox) of the sanitizer. Remote control via Windows program.	Free Write in No. 3118											~		
Concrete Creations 888-299-8273; Fax: 818-708-2110 6428 Yarmouth Ave. Reseda, CA 91335	Manufactures custom concrete urns and planters, handmade and reinforced with iron bars; giant urns a specialty. Also, trash receptacles, benches, fountains, ash urns, counter tops, etc., in a variety of styles.	Free Write in No. 2608										~			
Copper Sculptures 800-235-6725; Fax: 601-992-7099 5230 Hwy 25 Brandon, MS 39042	Company offers finely hand-crafted copper lanterns, mailboxes, posts, and metal furniture.	Free Write in No. 300										~			
Country Flair Tile 860-927-3178; Fax: 860-927-4978 www.homeandgardendecor.com Kent, CT 06757	Hand-carved fountains & millstones. An antique French collection of newly arrived hand-carved stone troughs & sinks & reclaimed terra-cotta & limestone tiles. Brass spigots, mosaic tables, outdoor tile.	Free Write in No. 3081						~			~	~	~		Tile for fountains
DMS Studios 718-937-5648; Fax: 718-937-2609 www.dms-studios.com Long Island City, NY 11101	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 262									~	~			
Dura Art Stone 800-821-1120; Fax: 909-350-9632 www.duraartstone.com Fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations.	Free Write in No. 3082						~			v	~			Cataloged cast-stone fountains
Elizabeth Street 212-644-6969; Fax: 212-644-8090 1176 Second Ave. New York, NY 10021	Antique garden ornament; custom stonework; re-creations of antique garden ornament in the same methods and materials as the originals.	Free Write in No. 3001										V			-
Environmental Features, Inc. 248-478-2775; Fax: 248-476-5120 www.wwnet.com/~efi Northville, MI 48167	Architectural precast-concrete benches, planters, tables, outdoor furnishings, waste receptacles, tree grates, bollards, and other cast exterior elements. Custom work available.	Free Write in No. 278										~			
Fairplay Stonecarvers 440-775-7878; Fax: 440-775-7979 www.fairplaystonecarvers.com Oberlin, OH 44074	Custom-designed stone and marble architectural and landscape ornament and sculpture. Reproduction, repair, and restoration of hand-carved ornamental sculpture, fireplaces, relief carvings, urns, doorways, fountains, capitals, bases.	Free Write in No. 868									~	V			
Festive Fountains 716-225-0083; Fax: 716-225-2169 61 St. Andrews Dr. Rochester, NY 14626	Suppliers of water-display equipment, including cascades and waterfalls, fountains, water-control devices, engineering, and consultation. Complete electrical panels. Commercial, residential, and public applications.	Free Write in No. 3840		~	~	~						~	~		Aeration equipment
Florentine Craftsmen 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101	Garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Also, weathervanes. Custom work a specialty.	Free Call for more information										~			Drinking fountains
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 2555		~				~			~	~			
Gregory Muller Associates, Inc. 718-599-6220; Fax: 718-599-6221 www.gregorymullerassoc.com Brooklyn, NY 11211	Artists and designers of natural-stone environments, sculpture, mosaics, architectural elements, and fountains.	Free		~				~			V				
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	Cast-reconstructed-limestone pool surrounds; freestanding, self- contained, & wall fountains with plumbing, pump & pool liner accessories. Also, technical sheets are available on request.	Free Write in No. 4020									~	~			Pool surrounds
Henri Studio, Inc. 847-526-5200; Fax: 847-526-6782 1250 Henri Drive Wauconda, IL 60084	Designer and manufacturer of cast-stone fountains, statuary, birdbaths, planters, and garden decor. Original designs, custom capabilities.	Free Write in No. 2630										~			
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210		~								~			Drinking fountains
Le Jardin Du Louvre 609-924-2743; Fax: 609-497-7369 4451 Route 27 Princeton, NJ 08540	Source of carved-stone landscape ornament, including urns, statuary, fountains, and pavers; custom work available.	Free Write in No. 2568										~			
Lee Knoll & Associates 610-927-1730; Fax: 610-927-1732 www.art4dzine.com Reading, PA 19610	Studio designs and creates three-dimensional works of art, fountains, and landscape accents in a variety of media. Will create anything you envision, from garden pools and terraces to large-scale, planned environments.	Free Write in No. 2572										~			Garden pool

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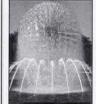
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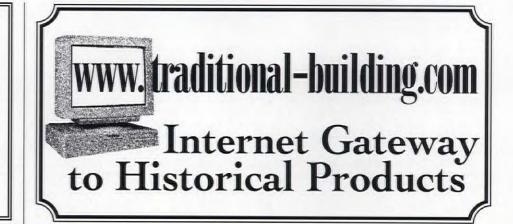
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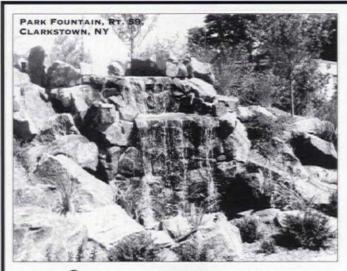


WATER FEATURES & FOUNTAINS SourceList

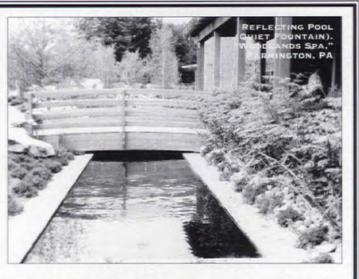
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COMPANY	SPECIALTY	Literature	Artificial Boulders	Waterfalls	Filters	Engineering	Underwater Lighting	Stone Elements	Plants	Pond Liners	Sculpture	Fountains	Water-Control Devices	Winterizing Materials	Other
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta.	Free Write in No. 5390										~			
Long Island Fountain Supply Co. 631-467-5115; Fax: 631-467-5295 www.lifountain.com/new Ronkonkoma, NY 11779	Supplier of fountain nozzles, pumps, lighting, controls, and self- contained prefabricated fountains; designer of complete fountain effects. Public, commercial, and residential. Large warehoused inventory.	Free Write in No. 4990		~	~	V	~			~		~	~		
Lynch & Sons, Inc. 203-762-8363; Fax: 203-762-2999 www.klynchandsons.com Wilton, CT 06897	Top-of-the-line fabricators with an extensive catalog of fountain designs, garden ornament, site furniture (including full park-bench manufacturing capabilities), weathervanes, finials, and gazebos. Custom capabilities.	Free Call for more information										V			
MacQueen Sculpture & Fine Arts 805-543-4493; Fax: 805-543-8154 www.macqueenfineart.com San Luis Obispo, CA 93406	Sculpture studio produces garden sculpture and fountains; bronze benches, some with figures attached; glass and bronze balustrades.	Free Write in No. 715									~	V			
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Producer of composite fiberglass molds for architectural precast concrete; columns, archways, planters, and more. Stock molds for over 100 balustrade designs. Custom molds available.	Free Write in No. 875													Fiberglass molds for fountains
Marshall Gold Leaf & Art Conservation Studios 214-421-1244; Fax: Same as phone www.marshallgold.com Dallas, TX 75231	Offices: Dallas, Pittsburgh, Europe. Maintenance of national memorials, landmark sculpture, fountains. Replication of 180-fttall Art Deco eagle on Fair Park tower, Dallas; private collections. Will work on a variety of metals & materials.	Free Write in No. 6230									~	~			
Metalmorphosis Studios 440-275-1351; Fax: 440-275-1361 2600 Forman Rd. Austinburg, OH 44010	Architectural and sculptural metalwork for public, corporate, and residential projects. Hand-forged iron, custom fabrication in all metals; cast bronze and aluminum, repousse copper and brass. Original designs and specialty finishes.	Free Write in No. 1190									~	~			
Misty Mountain AquaCultural Products LLC 800-493-0564; Fax: 706-379-1428 www.carefreepond.com Young Harris, GA 30582	A complete line of water-quality products and training on fish diseases.	Free													Water- quality products
Mitchell Sculpture 303-795-7570; Fax: 303-730-8995 www.theedge.com/hardart Littleton, CO 80123	Large-scale interior and exterior sculpture for public, corporate, and commercial sites. See web site for many colorful examples.	Free Write in No. 2595									~				
Murdock, Inc. 800-45-DRINK; Fax: 513-471-3299 www.murdockfountains.com Cincinnati, OH 45204	Manufactures a complete line of outdoor/indoor drinking fountains that meet ADA regulations. Also, hydrants (post and flush-box type), post showers; anti-freeze drinking fountains.	Free Write in No. 3780										~			Drinking fountains
Nichols Bros. Stoneworks, Ltd. 800-483-5720; Fax: 425-483-5721 www.nicholsbros.com Maltby, WA 98296	Manufactures hand-cast sandstone planters and garden furnishings. Can make to order; will crate and ship to anywhere in the United States.	Free Write in No. 5980										V			
Oase Pumps, Inc. 800-365-3880; Fax: 949-442-2465 www.oasepumps.com Irvine, CA 92614	Manufacturer of decorative water-feature equipment, engineering-design services, pumps, filtration, aeration, underwater lighting, and specialty nozzles.	Free Write in No. 3136		~	~	~	~			~		~	~		Pumps
Old World Stone Ltd. 800-281-9615; Fax: 716-842-3038 www.oldworldstone.com Buffalo, NY 14202	Supplier of dimensional-cut limestone and sandstone for new and restoration projects. All work is custom made to suit individual projects, incl. columns, mantels, architectural ornament, signage, garden ornament.	Free Write in No. 2894										~			
Ornamental Metal Institute of N.Y. 212-697-5553; Fax: 212-818-0976 211 E. 43rd St. New York, NY 10017	Consultations, literature, and seminars on the design and use of architectural and ornamental metals to construction professionals; associated services provided free of charge.	Free Write in No. 5430													Consultations
Otterbine Barebo, Inc. 800-237-8837; Fax: 610-965-6050 www.otterbine.com Emmaus, PA 18049	Manufacturer of water-aeration systems and fountains, water- quality management products, de-watering pumps, underwater lighting, lake dye, ozone-generation systems, and biological water treatments.	Free Write in No. 705					~					~	~		
Paragon Garden Art 803-254-5005; Fax: 803-254-7524 801 Huger St. Columbia, SC 29201	Importer of English and Italian cast architectural ornament, including Chilstone, Redwood, and Papine.	Free Write in No. 2751												~	
PEM Fountains 800-387-3600; Fax: 905-884-8941 www.pemfountain.com Richmond Hill, ON, CANADA L4C 0A2	Manufacturer and supplier of professional equipment for the decorative-fountain trade.	Free Write in No. 3131										~			
Petersen Mfg. Co. 800-832-7383; Fax: 712-263-5090 www.petersenmfg.com Denison, IA 51442	Manufacturer of planters, benches, and drinking fountains.	Free Write in No. 2576										~			Drinking fountains
Quarry Line, Inc. 630-718-1808; Fax: 630-718-1805 www.quarryline.com Naperville, IL 60540	Rotating granite-sphere fountains. Balanced, highly polished, solid-stone spheres rotate on a thin layer of water pumped from below. Custom engraving available. Fountain spheres measure up to 8 ft. in dia. and weigh over 20 tons.	Free Write in No. 1560										~			
Rena Corp. 800-968-7362; Fax: 704-364-9272 www.renapump.com Charlotte, NC 28211	Manufacturer of water-garden and fountain products, such as continuous-duty water pumps ranging in size from 80-1250 gph. Pumps are low-energy-consumption pumps.	Free			~		~			~					Water pumps, water treatments for foam & algae
Robinson Iron Corp. 800-824-2157; Fax: 256-329-8960 www.robinson-iron.com Alexander City, AL 35011	Historic reproductions of classic Victorian lawn and garden ornament in bronze, aluminum, or iron. Custom casting available.	Free Write in No. 3240										~			
Rossato Giovanni, srl/ Vicenza Stone Sculpture 011-39-0444-928499; Fax: 39-0444-928711 www.vicenzastone.com 36100 Vicenza, ITALY MVI 002134	Classic statues, fountains, fireplaces, consoles, columns, bench- seats, balls, pineapples, balustrades, vases, and more. Hand- carved in Vicenza stone. Column heights in multiples of 10 ft.	Free Write in No. 6110										~			
Ryden Arts, Ltd. 765-683-1488; Fax: Same as phone www.thetimmelcollection.com Anderson, IN 46016	Fine-art studio has created sculpture, monuments, and fountains for religious hospitals and universities.	Free Write in No. 2792									V	V			

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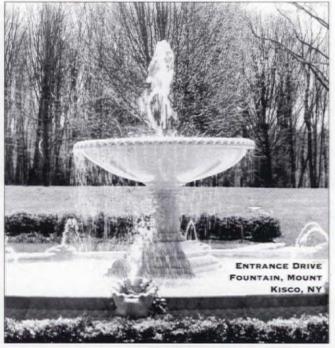


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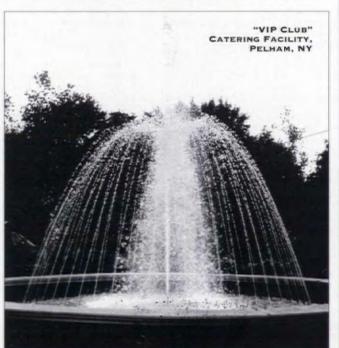


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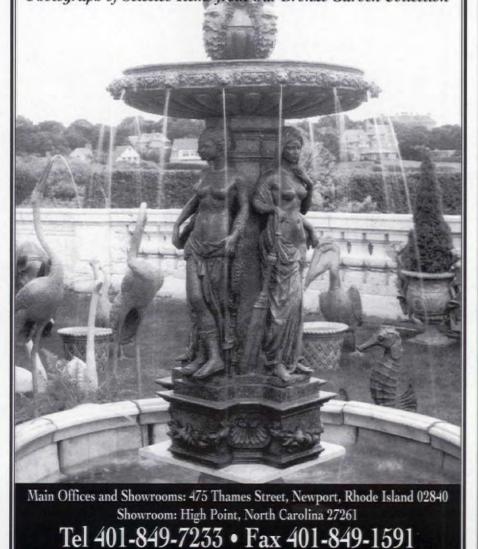
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Sandifer Sculpture 217-328-3605; Fax: 217-328-5603 www.advancenet.net/~sandifer Urbana, IL 61802	Figurative sculpture in cast bronze. Custom commissions from monumental public work to garden statuary.	Free Write in No. 2596									~				
Schiff Architectural Detail 617-887-0202; Fax: 617-887-0127 120 Eastern Avenue Chelsea, MA 02150	Foundry, forge, and fabrication shop offers custom castings and non-ferrous forge work; machine-shop service, rubber molding, and pattern work. Historic restoration and refurbishment. Also, custom large-scale bowl fountains.	Free Write in No. 7730										~			
Scott Aerator Co. 800-WATER-45; Fax: 616-392-8860 www.scottaerator.com Holland, MI 49424	Maker of fountains and aerators to beautify and improve water quality. Constructed of high-density polyurethane and stainless steel. Oil-free motor with a five-year unconditional warranty. Lights available.	Free Write in No. 3144										~			Pond fountains, display aerators
Stone Forest 505-986-8883; Fax: 505-982-2712 www.stoneforest.com Santa Fe, NM 87504	Hand-carved granite fountains & garden ornament, combining Japanese tradition with contemporary design. Fountains are available in sizes from a table-top model to commercial installations.	Free Write in No. 1108						~			~				
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630										~			
Sunroc Corp. 302-678-7800; Fax: 302-678-7809 www.sunroc.com Dover, DE 19903	Source of drinking fountains.	Free													Drinking fountains
Talladega Foundry 256-362-0056; Fax: 256-362-6880 www.talladegafoundry.com Talladega, AL 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No. 3148										~			
Tennessee Fabricating Co. 901-725-1548; Fax: 901-725-5954 www.tnfab.com Memphis, TN 38104	Wholesale supplier of decorative metals and hardware, specializing in cast-iron and -aluminum ornamental castings.	Free Write in No. 5180										~			
Texas Metal Industries, Inc. 800-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lampposts, and urns.	Free Write in No. 9430										~			
Third Coast Imports 210-804-1239; Fax: 210-805-8308 www.thirdcoastimports.com San Antonio, TX 78209	Over 20 years' experience with natural quarry stone, specializing in fireplaces, columns, balustrades, pool coping, flooring, and other architectural items. Colors include white, pink, gray, brown, orange, black, and beige.	Free Write in No. 1281										~			
Towne House Restorations 718-326-4210; Fax: 718-326-1344 www.caststone.org/thr Maspeth, NY 11378	Custom fabricator of cast stone and GFRC to replicate ornamental terra cotta, limestone, & brownstone. Services include pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings, engineering.	Free Write in No. 545				~									
Van Ness Water Gardens 800-205-2425; Fax: 909-949-7217 www.vnwg.com Upland, CA 91784	Specializes in eco-systems, from small ponds to large lakes; world-wide consulting services.	Free			~	~	~		~	V			~	~	Eco-systems
Vulcan Supply Corp. 802-893-0512; Fax: 802-893-0534 P.O. Box 100 Westford, VT 05494	Specialist in replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornices, vented ridge cresting, leader boxes, cupolas, roof vents, and more; all periods and styles.	Free Write in No. 7212										~			
Water Structures Co. 800-747-0168; Fax: 978-463-8210 www.star.net/business/water/ Newburyport, MA 01950	Prefabricated tile and natural-stone baptismal fonts and fountains; waterfalls and water-display equipment for public projects, malls, and office buildings.	Free		~				~				~			Natural-stone fountain pools, water walls
Waterfalls of Nature 718-543-2770; Fax: 718-543-3606 www.waterfallsofnature.com Bronx, NY 10471	Importer of lightweight fiberglass water features that are molded on natural rocks and have a finish of genuine stone; installed easily, indoors or outdoors.	Free	V	~											Ponds



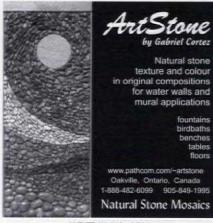
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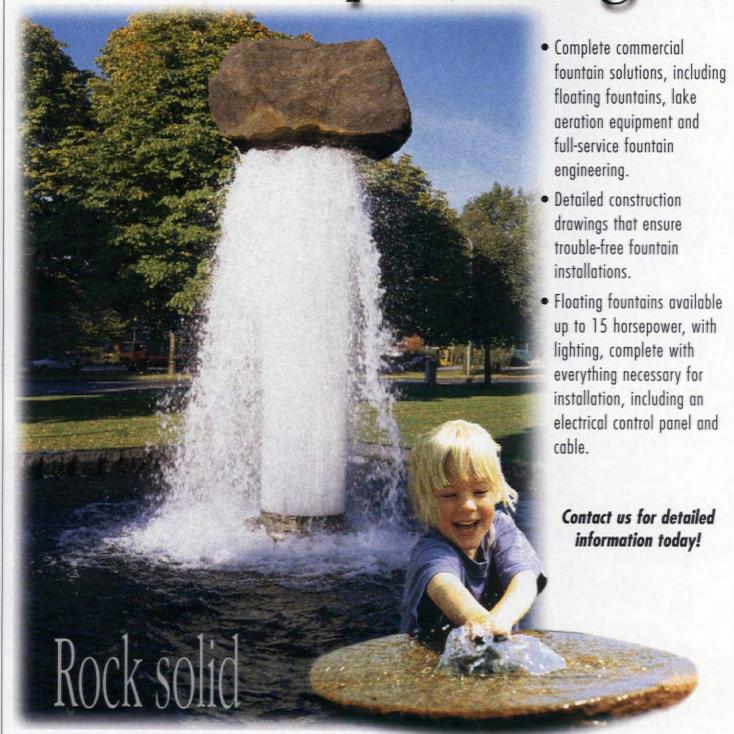
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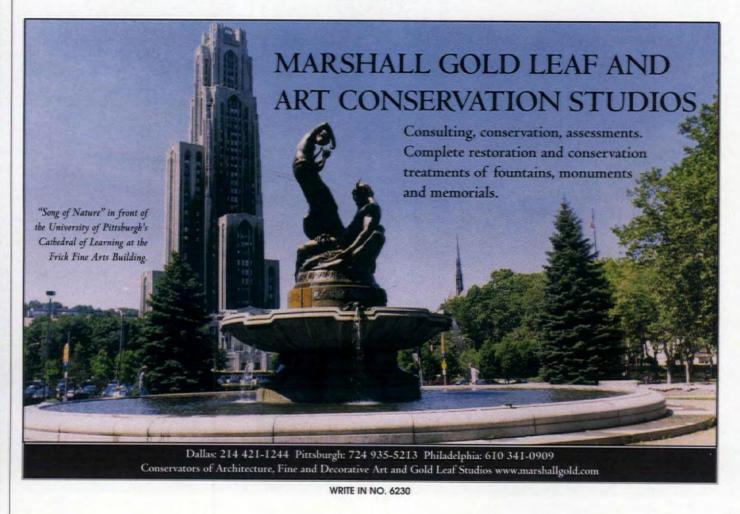
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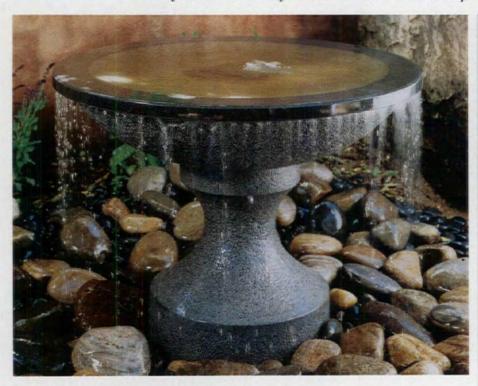
OASE Pumps, Inc. 17322 Murphy Ave., Irvine, CA 92614 • 800-365-3880 • Web site: www.oasepumps.com





WATER FEATURES & FOUNTAINS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 165-170



The Sky Mirror fountain from STONE FOREST stands 22 in. high, has a 30-in. dia., and is hand-carved from blue-gray granite. Write in No. 1108



"Mountainscape" is a copper and bronze fountain set in a reflecting pool, created by METALMORPHOSIS. Write in No. 1190



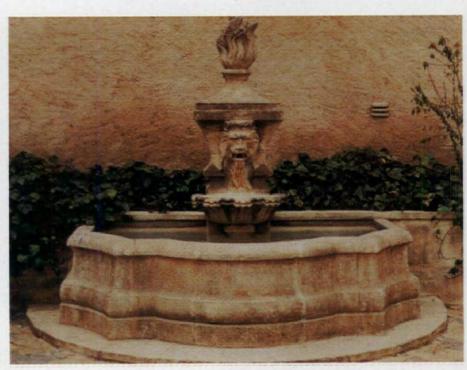
SCOTT AERATOR CO.'s Big Shot Fountain is available in a 1/2-HP/110-volt model, which has a center jet that shoots up to 25 ft., or a 1-1/2-HP/230-volt model, which shoots up to 40 ft. Write in No. 3144



OASE PUMPS, INC., produces a full line of pumps, conditioners, and accessories, as well as fountains and aerators, for a wide variety of water-gardening applications. Write in No. 3136



PEM FOUNTAIN CO. supplied the jets, nozzles, and fountainheads for this civic feature. Write in No. 5131



COUNTRY FLAIR TILE offers a range of fountains hand-carved from limestone by renowned artisan Francois Gillard of Limestone Concept, Inc. Write in No. 3081



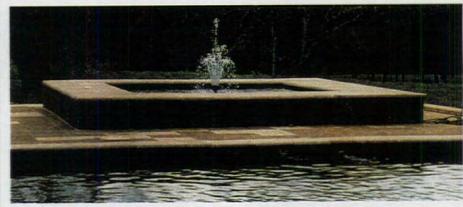
FESTIVE FOUNTAINS supplied the lights, pumps, filters, and fountain controls for this streetscape water feature in downtown Burlington, Vt. Write in No. 3840



QUARRY LINE's floating-stone fountains are available with highly-polished granite spheres of up to ten feet in diameter, which rotate on a thin layer of water pumped at a surprisingly low 12-20 PSI. Write in No. 1560



The Tri-Star surface aerator from OTTERBINE BAREBO, INC., has a three-tier design which makes it an ideal enhancement to a pond or lake as well as an effective aeration device. Write in No.~705



The variety of fountains and water features available from THIRD COAST IMPORTS includes traditional wall and free-standing fountains, as well as more contemporary designs, such as the one pictured. Write in No. 1281

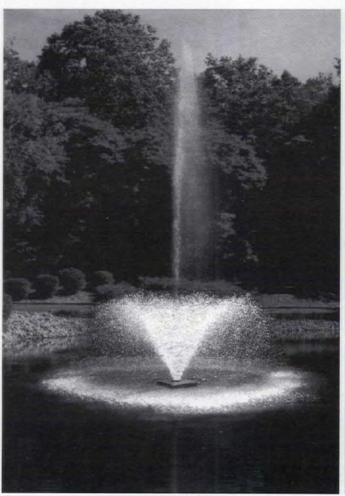
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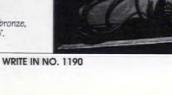
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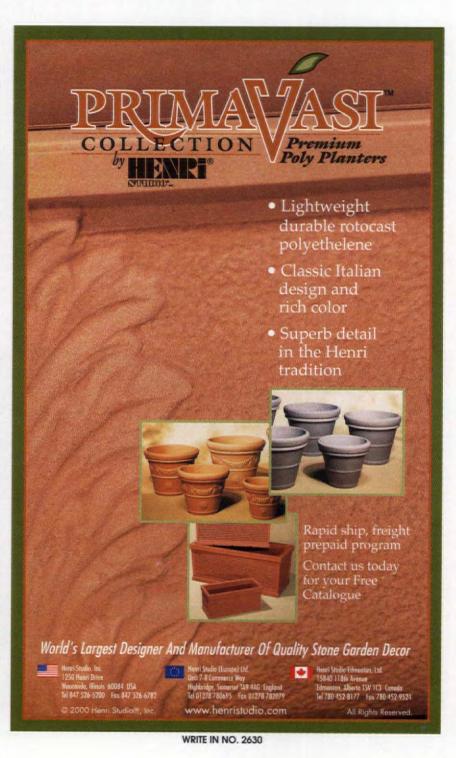
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WATER FEATURES & FOUNTAINS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 165-170

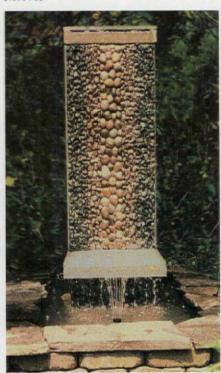


ARCADIA CERAMICS' range of handcrafted, hand-glazed, ceramic wall fountains includes #AF-6, shown here. Write in No. 1326

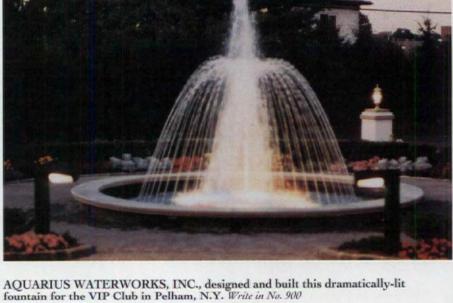
BRASS BARON's 39-in.-tall "Wildflower" is a copy of a bronze by Edward Berge which was displayed at the Palace of Fine Arts during the 1915 Pan Pacific International Exposition. Write in No. 200



The Classic series of drinking fountains from MURDOCK, INC., includes this model, the Lily White, an original Art Deco-influenced design which features a polished-brass bowl and bubbler. Write in No. 3780



The textures of pebble and natural stone are combined beautifully in this fountain by ARTSTONE BY GABRIEL CORTEZ. Write in No. 2583





RYDEN ARTS' Kenneth G. Ryden sculpted this 10-ft.-tall bronze figure of St. John the Apostle, in a 42-ft.-dia. fountain, for St. John's Medical Center in Anderson, Ind. Write in No. 2792



AQUAMASTER's 5-HP Crystal Geyser floating fountain aerator combines effective aeration with a decorative spray pattern. Write in No.461



CHEMTROL's programmable water-treatment controllers offer chemical automation, water balance, filter backwash, and heater control all with remote operation. Write in No. 3118



VULCAN SUPPLY CORP.'s combination of natural and geometric forms in this stone basin is indicative of the subtlety of their landscape elements. Write in

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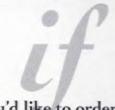
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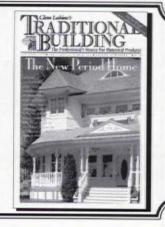
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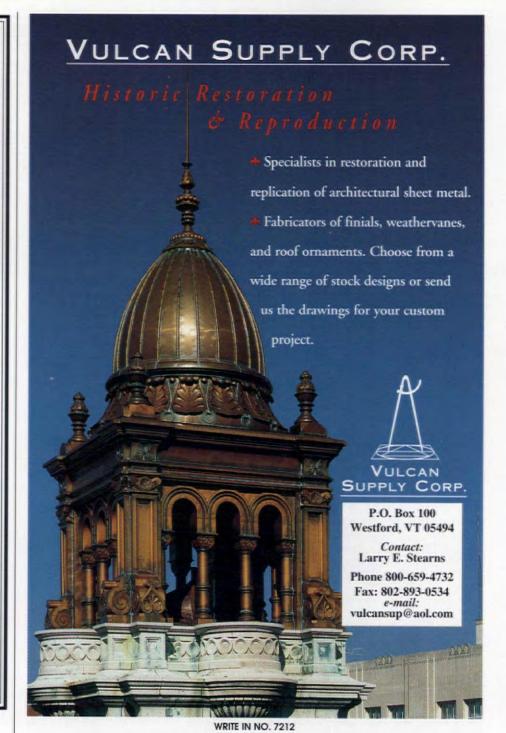
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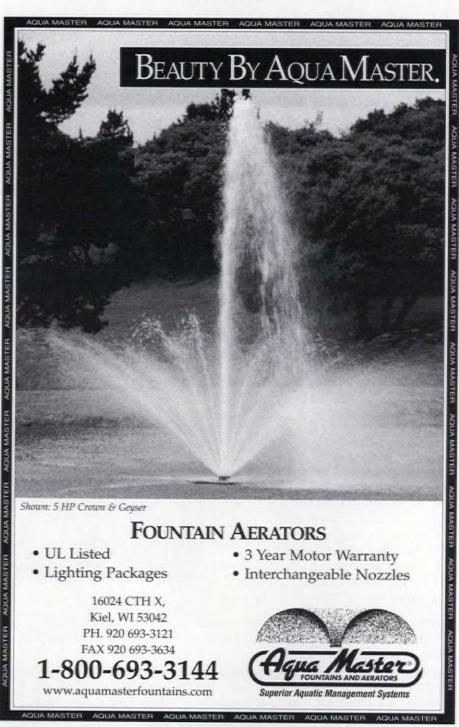


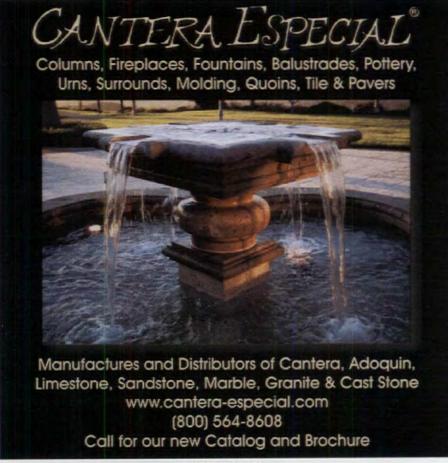
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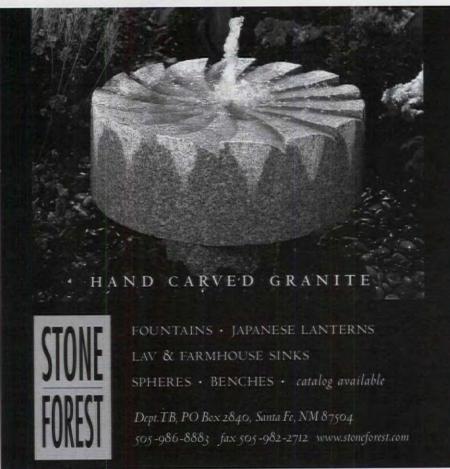








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SourceList 178-182 Portfolio 184-188

ILLUMINATING THE SCENE

o matter how perfectly landscaped an area might be, it won't make much of an impression once the sun goes down — unless it has been sensitively illuminated by the appropriate landscape-lighting system. Too much light washes out detail; too little light hides the terrain; and even just enough light is no good if it isn't aimed properly, maintained correctly, and housed in a fixture which is appropriate to both the landscape and whatever

architecture is sited there. The *SourceList* starting on page 178 will shed light on which supplier offers the illumination best suited to your project. We have sources of special lighting effects; lantern-makers who work in lighting-design styles of the 18th, 19th, and 20th centuries; we've even included sources of gas-burning lighting, for those situations where the incandescent bulb just isn't right.



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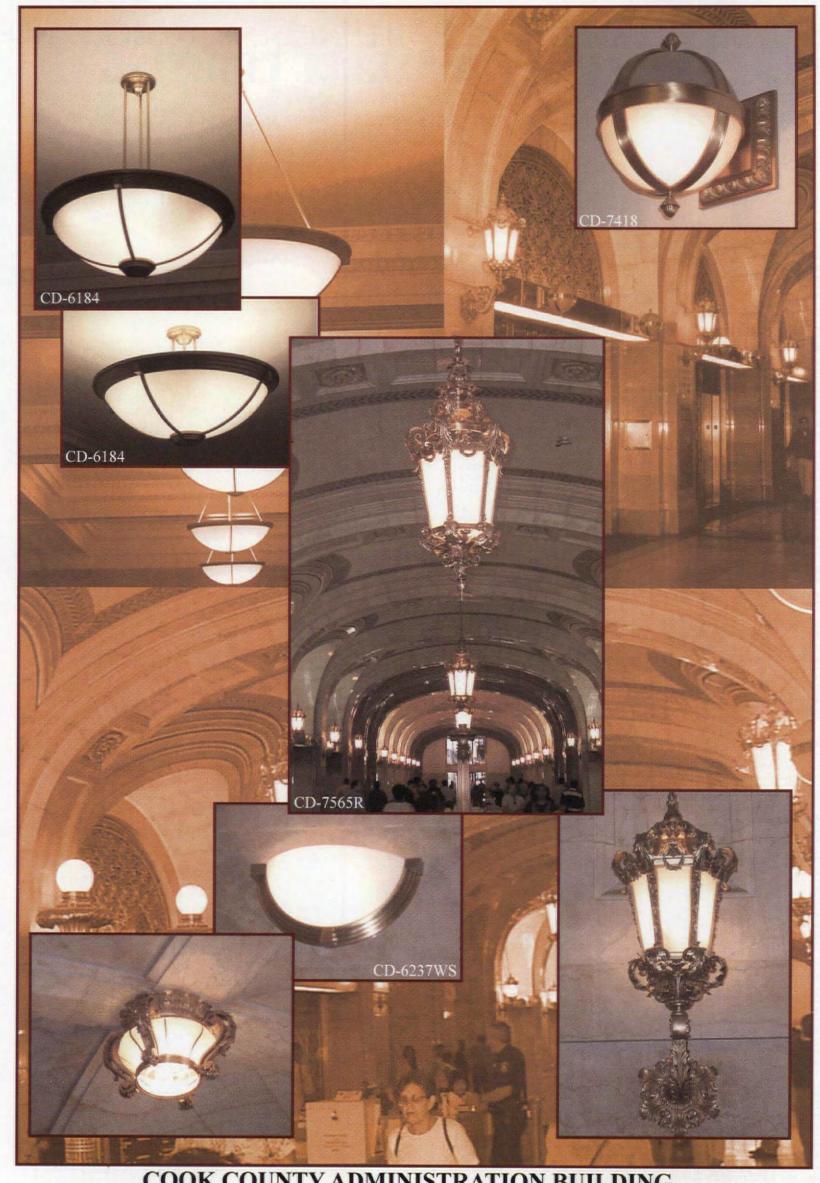




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Aardvark Antiques 800-446-1052; Fax: 401-849-1591 www.aardvarkantiques.com Newport, RI 02840	Grand iron gates from Newport's "Gilded Age." Hundreds of pieces available. Also fencing, window grates, balconies, and paladium grates.	Free Write in No. 718					7					~			N/A
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Authentic Designs 802-394-7713; Fax: 802-394-2422 www.authentic-designs.com West Rupert, VT 05776	Hand-crafted Early American and Colonial lighting fixtures in brass, copper, and Vermont maple; interior and exterior. Over 250 standard designs; custom sizes available.	Free Write in No. 60	Curb & pathway	~						Early American, custom	Interior, exterior, post- mounted		O/R	~	40%
B-K Lighting 559-438-5800; Fax: 559-438-5900 www.bklighting.com Fresno, CA 93711	Specification-grade landscape and architectural lighting. Specializing in machined aluminum and solid-brass construction. Custom design and finishes encouraged.	Free	Curb & pathway, special visual effects, flood								Landscape lighting				30%
Ball & Ball Lighting 610-363-7330; Fax: 610-363-7639 www.ballandball-us.com Exton, PA 19341	Large line of authentic historic lighting and lanterns, both interior and exterior; 18th, 19th, and early-20th centuries. Custom lighting a specialty.	Free Write in No. 7660	Curb & pathway	-	~						Interior, exterior, post- mounted		O/R	-	75%
Bevolo Gas & Electric Lights 504-522-9485; Fax: 504-522-5563 www.bevolo.com New Orleans, LA 70130	Hand-riveted, antique-copper, natural-gas, propane, and electric fixtures for homes, commercial landscapes, and streetscapes; custom scaling and style proposal of your project available.	Free Write in No. 166	Curb & pathway	-	-	~	~	~	~	Country French, French Quarter	Exterior, post- mounted, gas- burning, electric	V	O/R	V	25%
Brandon Industries, Inc. 800-247-1274; Fax: 972-542-1015 www.brandonindustries.com McKinney, TX 75069	Manufacturer/distributor of traditionally styled aluminum mailboxes, exterior lamp posts, and signage.	Free Write in No. 73	Curb & pathway	~	~	-			~		Exterior, post-mounted		R		5%
Brass Light Gallery, Inc. 800-243-9595; Fax: 414-271-7755 www.brasslight.com Milwaukee, WI 53204	Designer and manufacturer of interior and exterior lighting for residential and commercial spaces. Vintage-lighting restoration services available.	Free	Curb & pathway	~	~	-	-		~	European Country	Interior, exterior, post- mounted	~	O/R	~	25%
Charleston Lighting & Manufacturing, Inc. 800-661-9224; Fax: 334-473-0306 www.charlestonlighting.com Mobile, AL 36607	Handmade copper lanterns in a variety of gas or electric sources. Comprehensive selection of designs for all settings; residences, street lighting, and commercial applications. Also, street-lighting and mailbox standards.	Free Write in No. 772	Curb & pathway	~	~	-		~	-	French Quarter replicas	Exterior, gas- burning, electric	~	O/R	~	25%
Christopher Thomson Ironworks 505-421-2645; Fax: 505-421-2618 P.O. Box 578 Ribera, NM 87560	High-end, hand-forged furniture and furnishings for corporate offices, hotel rooms, and lobbies: lamps, interior and exterior lanterns, desks, tables, fireplace accessories, drapery rods, beds, chairs, wall sconces, door hardware.	Free Write in No. 237						~	~	Contem- porary	Interior, exterior		0		50%
Classic Architectural Specialties 800-662-1221; Fax: 972-552-9054 www.casdesign.com Forney, TX 75126	Full-service supplier of architectural components, furnishing complete packages for period commercial exteriors, from millwork to street lighting.	Free Write in No. 4200	Curb & pathway	-	-								R		0%
Coe Studios, Inc. 510-527-2950; Fax: 510-527-0103 1214 Fourth St. Berkeley, CA 94710	This metalsmith/mountaineer/naturalist does forging, hammering, repousse, and lost-wax castings in solid bronze and iron, with inspiration for his designs drawn from nature. Any style or period available.	Free Write in No. 830	Curb & pathway		-				~	As specified	d				1009
Conant Custom Brass, Inc. 800-832-4482; Fax: 802-864-5914 www.conantcustombrass.com Burlington, VT 05401	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Also, pendants, chandeliers, and sconces in many finishes and styles; custom weathervanes and finials.	Free Write in No. 620	Curb & pathway, special visual effects	-		-		~			Interior, exterior, post- mounted	~	O/R	V	509
Copper House 800-281-9798; Fax: 603-736-4921 www.thecopperhouse.com Epsom, NH 03234	Hand-crafted copper and brass lighting, standard and custom, for interior and exterior. Also, weathervanes made of copper; finials custom-made to spec. All products made using only solid copper and brass, no plated metal.	\$4, deductible from order Call for more information	Curb & pathway	-				-			Interior, exterior, post- mounted				5%
Copper Sculptures 800-235-6725; Fax: 601-992-7099 5230 Hwy 25 Brandon, MS 39042	Company offers finely hand-crafted copper lanterns, mailboxes, posts, and metal furniture. AGA, CSA certified.	Free Write in No. 300	Curb & pathway	-					~		Exterior, post- mounted, gas burning				609
Customlightstyles.com 707-547-9909; Fax: 707-538-5543 www.customlightstyles.com Santa Rosa, CA 95409	Manufacturer of hand-crafted interior, exterior, & landscape lighting. Chandeliers, sconces, lanterns. Made of iron, brass, & copper. 70 painted colors, 12 natural finishes available. Rapid turnaround. Custom requests invited.	Free	Curb & pathway	-					-	Custom	Interior, exterior, post mounted		0		759
Dahlhaus Lighting Inc. 718-599-5413; Fax: Same as phone www.dahlhaus-lighting.com Brooklyn, NY 11211	Vintage lighting for residential, commercial, and civic sites; street lamps & lanterns; also bollards, fountains, ornaments, and mailboxes that once graced Europe's cities, towns, and estates.	Free Write in No. 2767	Curb & pathway								Exterior		R		109
Design Works 559-268-1446; Fax: 559-268-5507 designworks-ca.com Fresno, CA 93703	Source of landscape and street lighting. Cast- aluminum street lamp and wall sconces in 70 styles.	Free Write in No. 2591	Curb & pathway		v		,		-		Exterior, post-mounted		R		159



COOK COUNTY ADMINISTRATION BUILDING CHICAGO

ARCHITECT: CAMPBELL, TIU, CAMPBELL; DAN FRANKS L.A. PROJECT DIRECTOR: WARRICK GRAHAM AIA HISTORIC LIGHTING CONSULTANT: GARY H. BEHM



SAINT LOUIS ANTIQUE LIGHTING CO. RESTORATION . REPLICATION . INNOVATION

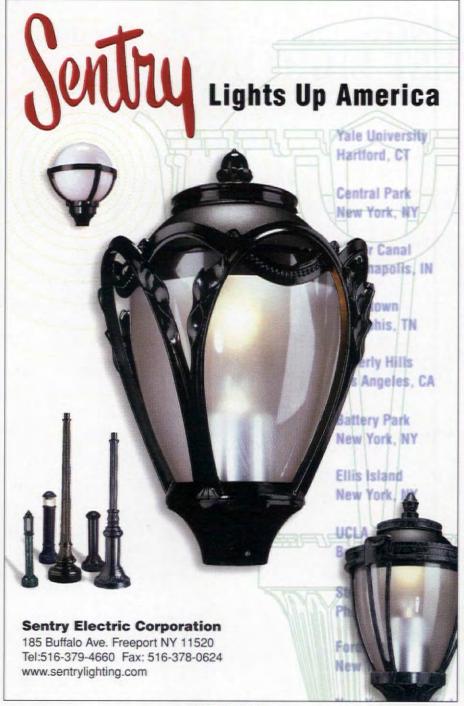
801 North Skinker Boulevard St. Louis, MO 63130 Phone: (314) 863-1414 FAX: (314) 863-6702 E:mail:slalco@primary.net



TRADITIONAL BUILDING'S SourceList for CS1# 02800 ANDSCAPE & STREET LIGHTING

COMI	ILED	BY COLE	GAGNE

COMPANY	SPECIALTY				STYLE OF				LANTERN				>		
			Type of Lighting	Colonial	Victorian	Turn of the Century	Art Deco/Moderne	Arts & Crafts/ Mission/Prairie	Spanish/ Mediterranean	Other	Type of Lantern	Antique/Salvage	Original Designs (0)/ Reproductions (R)	Restoration	% Custon
Oynamic Lighting, Inc. 181-997-5400; Fax: 281-997-5441 www.dynamiclighting.com Pearland, TX 77581	Decorative cast-aluminum light poles and fixtures; H.I.D. compact fluorescent and incandescent light sources.	Free Write in No. 904	Curb & pathway	V	V	~	V		V		Exterior, post-mounted				5%
lectro Elf 07-585-2696; Fax: 29 Sutton Pl. anta Rosa, CA 95407	Designer and manufacturer of polycarbonate, energy-efficient compact lighting in fluorescent, 12-volt, AC/DC. Available for residential, commercial, bollards. Made in USA.	Free Write in No. 2565	Curb & pathway, landscape, wall-mounted		V	~	~	~		Custom	Interior, exterior, post- mounted		0		100%
aubourg Lighting, Inc. 00-803-7518; Fax: 601-894-5195 ww.faubourglighting.com azlehurst, MS 39083	Company designs and fabricates historical gas and electric lighting in copper. Interior, exterior, post-mounted, and gas-burning lighting. Custom work a specialty.	Free Write in No. 424	Curb & pathway	V		~		V			Interior, exterior, post- mounted, gas- burning		O/R	V	40%
ine Architectural Metalsmiths 45-651-7550; Fax: 845-651-7857 ww.iceforge.com hester, NY 10918	Hand-built signature lighting: entry lanterns, foyer chandeliers, and sconces from award-winning studio. Period or fine custom styling in forged iron, coppers, and bronzes. Exotic patinations.	Free Write in No. 2640	Curb & pathway	~	V	~	~	V	~	Custom	Interior, exterior		O/R		100%
ocus Landscape Lighting 49-830-1350; Fax: 949-830-3390 ww.focusindustries.com ake Forest, CA 92630	A complete line of 12- and 120-volt landscape lighting fixtures. Utilizing today's most popular light sources and power supplies. Email: info@focusindustries.com	Free	Curb & pathway, special visual effects						~		Exterior		0		1%
anover Lantern 17-632-6464; Fax: 717-632-5039 ww.hanoverlantern.com anover, PA 17331	Design-manufacturers of cast-aluminum lighting fixtures, poles, bollards, mailboxes, and accessories for commercial, residential, and landscape-lighting applications.	Free Write in No. 3440	Curb & pathway, special visual effects	V	V	~					Exterior, post-mounted		0		7%
APCO, Inc. / American Flagpole Co. 00-368-7171; Fax: 540-628-7707 ww.hapco.com bingdon, VA 24210	Aluminum poles for highway, parking lot, residential, and street lighting and traffic control. Also carries flagpoles. Complete line of decorative lamp posts.	Free Write in No. 4070	Curb & pathway								Exterior				0%
lennessy House Wooden Flag Poles 00-285-2122; Fax: 530-862-0125 www.woodenflagpoles.com ierra City, CA 96125	Hand-crafted, glue-laminated, old-style Douglas fir poles 15 to 40 ft. Authentic square to octagon to tapered round design. High vertical axial strength. Lifetime guarantee.	Free Write in No. 1180								Wooden lighting poles					100%
lerwig Lighting 00-643-9523; Fax: 501-968-6422 ww.herwig.com ussellville, AR 72811	High-quality, hand-crafted original designs since 1908. Cast-aluminum or -bronze, exterior residential, commercial, municipal lighting: wall brackets, pendants, pier- or post-lanterns. Street clocks, posts from 19 in. to 14 ft.	Free Write in No. 9130	Curb & pathway	V	~	~	~	~	~		Exterior		O/R	~	50%
linkley Lighting 16-671-3300; Fax: 216-671-4537 ww.hinkleylighting.com leveland, OH 44111	Manufacturer and supplier of exterior lighting fixtures for over 75 years, offering an extensive selection of landscape lighting, lanterns, site lighting, and posts.	Free Write in No. 680	Curb & pathway	~	~	V					Exterior				20%
istorical Arts & Casting, Inc. 00-225-1414; Fax: 801-280-2493 ww.historicalarts.com /est Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210	Curb & pathway	~	~	~	~	~	~		Interior, exterior, post- mounted, gas- burning		O/R	~	100%
mperial Mailbox Systems 00-647-0777; Fax: 334-285-6635 901 Norris Lane tillbrook, AL 36054	Maker of quality "rust-free" cast-aluminum mailboxes, street signs, and light poles.	Free Write in No. 586	Curb & pathway							Aluminum light poles					10%
Graney Metal Design 13-528-6744; Fax: 413-528-6749 920 North Main St. heffield, MA 01257	Forged metalwork in classical and contemporary designs in various metals; gold leaf; exotic finishes. Entryways; sconces, floor & table lamps, chandeliers. Design and installation service; historical restoration.	Free Write in No. 4840	Curb & pathway	V	~	~	~	~	~	Custom	Interior, exterior	V	O/R	~	100%
ohnson Art Studio 31-464-0567; Fax: 120 Capitola Rd. anta Cruz, CA 95062	Source of exterior lighting fixtures. Studio makes everything it sells.	Free Write in No. 2594	Porch lights, post lights							Contem- porary, Craftsman	Exterior		0		5%
Kahalley Lighting, Inc. 34-473-1992; Fax: 334-473-1920 www.kahalley.com Jobile, AL 36607	Lighting manufacturer offers an array of lanterns, gas-burning as well as electric.	Free Write in No. 3110	Curb & pathway		~	~			-	Aluminum light poles & mailbox poles	Exterior, gas- burning		O/R	~	20%
Cim Lighting ,26-968-5666; Fax: 626-369-2695 www.kimlighting.com City of Industry, CA 91716	Outdoor site, area, and landscape lighting fixtures, using die-castings in aluminum and brass, as well as cast copper and bronze.	Free Write in No. 873	Curb & pathway								Exterior				0%
Cing Luminaire/The Stress Crete Group 100-268-7809; Fax: 905-632-8116 oww.kingluminaire.com Eurlington, ON, CANADA L7R 3X9	Period lighting fixtures with cast-ductile-iron poles, and decorative concrete poles and bollards in a variety of colors. Acorn luminaires are available in polycarbonate or acrylic.	Free Write in No. 3410	Curb & pathway	~	~	~									20%
aguna Lightcraft 49-496-0360; Fax: 949-493-8777 2241 Avenida Los Amigos an Juan Capistrano, CA 92675	Landscape and garden lighting; many Arts & Crafts-style fixtures.	Free Write in No. 198	Curb & pathway					~							20%
ake Shore Industries 00-458-0463; Fax: 814-453-4293 www.lsisigns.com crie, PA 16512	Manufactures custom cast-aluminum signs and plaques. Specialist in street signs, town seals, historical markers, and custom work.	Free Write in No. 8730								Cast bases for street lighting					1009
ighting by Hammerworks 08-755-3434; Fax: Same as phone www.hammerworks.com Forcester, MA 01603	Reproduction Colonial lighting fixtures: wall sconces, chandeliers, wall and post lanterns made in copper, brass, and tin; gas-burning exterior lighting. Also, hand-forged door hardware, shutter hinges and dogs, slide bolts.	Free Write in No. 5090	Curb & pathway, nostalgia-type gooseneck sign lighting	~				~			Interior, exterior, wall- & post- mounted, hanging		R		5%
Mel Northey Co. 800-828-0302; Fax: 281-445-7456 www.melnorthey.com Houston, TX 77037	Large source for heavy-duty, rust-free, cast- aluminum curbside mailboxes. Also, exterior lighting and posts.	Free Write in No. 53	Curb & pathway	~	~	~	,			-	Exterior				5%
Metalmorphosis Studios 140-275-1351; Fax: 440-275-1361 2600 Forman Rd. Austinburg, OH 44010	Architectural and sculptural metalwork for public, corporate, and residential projects. Handforged iron, custom fabrication in all metals; cast bronze and aluminum, repousse copper and brass. Original designs and specialty finishes.	Free Write in No. 1190	Curb & pathway							Custom	Interior, exterior				75%



WRITE IN NO. 497



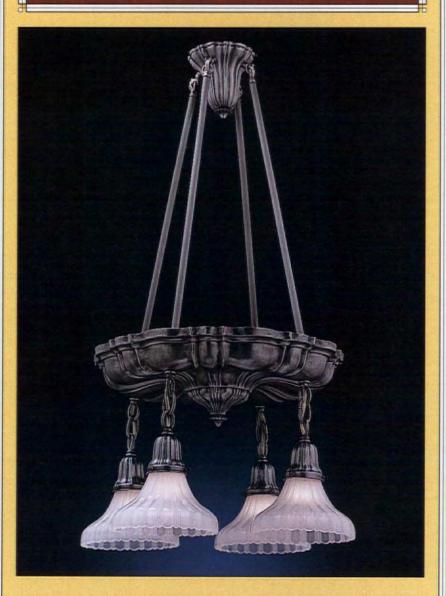
WRITE IN NO. 620 FOR LIGHTING & 5050 FOR METALWORK



WRITE IN NO. 830

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Shakespeare







e manufacture authentically re-created lighting for period homes and buildings. Authentic details. Authentic materials. No shortcuts. Finished and tailored to your specifications in our own period plant. Illuminating thousands of historic buildings across America. Since 1977.

For a FREE 88-page lighting catalogue, call 888-3-GETLIT (888-343-8548).

Or, free to lighting specifiers is our new Architect's Binder, including catalogue, photometrics, details about energy-efficient lamping options, and presentation materials.

To request a binder, call 888-401-1900.

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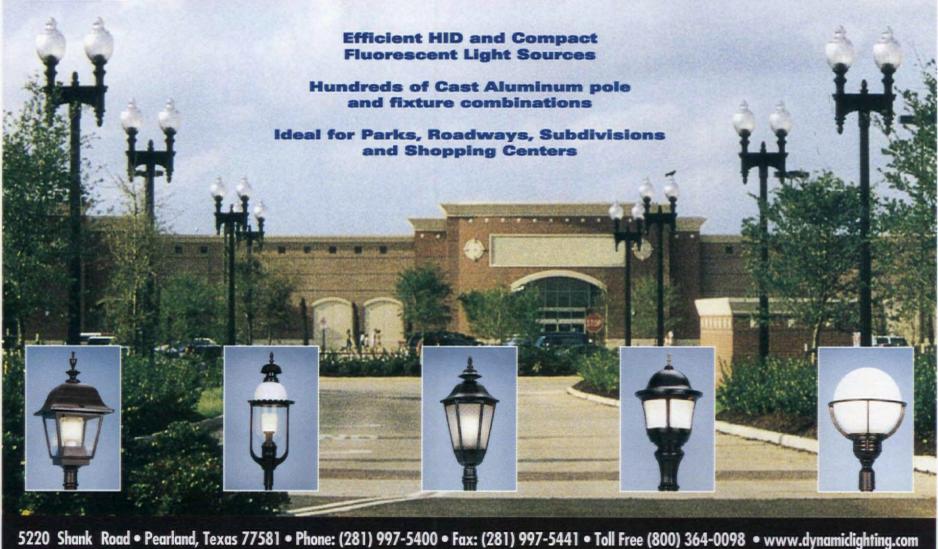
LANDSCAPE & STREET LIGHTING

COMPILED BY COLE GAGNE

					S	ΓY	E (OF L	ANT	ERN			>		
COMPANY	SPECIALTY	Literature	Type of Lighting	Colonial	Victorian	Turn of the Century	Art Deco/Moderne	Arts & Crafts/ Mission/Prairie	Spanish/ Mediterranean	Other	Type of Lantern	Antique/Salvage	Original Designs (0)/ Reproductions (R)	Restoration	% Custom
National Clock & Light Co. 812-858-8585; Fax: 812-858-8580 5422 Bice Place Newburgh, IN 47630	Unusual high-end collectibles, including street clocks & lamps, soda & cigarette machines, gas pumps, juke boxes, and trolley trams.	Free Write in No. 503	Curb & pathway								Antique		R		5%
lew York Gas Lighting Co. 12-529-2651; Fax: 212-529-7811 95 Bowery lew York, NY 10002	Since 1911, one of New York's oldest lighting inventories. Solid brass, bronze, crystal, & porcelain chandeliers, lanterns, sconces, table & floor lamps. High-quality European-style exterior lighting for electric or gas applications.	Free Write in No. 5380	Curb & pathway	V	V	~		~	V	European traditional	Interior, exterior, post- mounted, gas- burning		O/R		20%
ewstamp Lighting Co. 08-238-7071; Fax: 508-230-8312 ww.newstamplighting.com orth Easton, MA 02356	Indoor and outdoor lighting fixtures in all styles in copper, brass, and terne metal. All energy sources, including gas. Catalog available for Colonial-style fixtures and lanterns; restoration and reproduction.	Free Write in No. 800	Curb & pathway, special visual effects	~	~	-	~	~	V	Custom	Interior, exterior, post- mounted, gas- burning, candle or kerosene	~	O/R	~	50%
eriod Lighting Fixtures, Inc. 00-828-6990; Fax: 413-664-0312 ww.periodlighting.com larksburg, MA 01247	Handmade 18th- and 19th-century chandeliers, sconces, lanterns. Aged tin, oxidized copper-, natural copper-, and pewter-finishes. Exterior and interior lanterns; many made under license from Historic Deerfield and Williamsburg.	Free Write in No. 301	Curb & pathway	~	-	~									10%
dejuvenation Lamp & Fixture Co. 188-343-8548; Fax: 800-526-7329 www.rejuvenation.com Portland, OR 97210	Manufactures Victorian, Arts & Crafts, Colonial Revival, Art Deco, and Neoclassic solid-brass reproduction lighting. Over 280 authentic interior & exterior fixtures, 11 finishes; custom capabilities for all types of construction.	Free Write in No. 7630	Porch					~		Old English	Interior, exterior	~	R	~	50%
Renaissance Companies 805-688-6222; Fax: 805-686-4044 886 First Street Golvang, CA 93463	Traditional street clocks, steeple clocks, and public clocks made to order; inventory of over 300 quality antique clocks, fully restored and guaranteed.	Free Write in No. 6470	Curb & pathway			~					Wall, gas- burning, electric				80%
tobinson Iron Corp. 100-824-2157; Fax: 256-329-8960 www.robinson-iron.com dexander City, AL 35011	Historic reproductions of classic Victorian lawn and garden ornament in bronze, aluminum, or iron. Custom casting available.	Free Write in No. 3240	Curb & pathway		~								O/R	~	75%
toy Electric Co. 00-366-3347; Fax: 908-317-4629 www.westfieldnj.com/roy Vestfield, NJ 07090	New full-product color catalog features 274 Victorian and Turn-of-the-Century lighting fixtures: sconces, pendants, flush fixtures, glass shades. Also offers custom capabilities, restoration, and antique fixtures.	Free Write in No. 430	Curb & pathway	V	V	V	V	~				V		V	20%
andwich Lantern 88-741-0714; Fax: 508-833-0547 www.sandwichlantern.com andwich, MA 02563	Source of lanterns and onion post lights with hand-blown globes.	Free Write in No. 2597	Curb & pathway	~	V										90%
chiff Architectural Detail 17-887-0202; Fax: 617-887-0127 20 Eastern Avenue chelsea, MA 02150	Foundry, forge, and fabrication shop offers custom castings and non-ferrous forge work; machine-shop service, rubber molding, and pattern work. Historic restoration and refurbishment.	Free Write in No. 7730	Curb & pathway							Custom				~	100%
entry Electric Corporation :16-379-4660; Fax: 516-378-0624 vww.sentrylighting.com reeport, NY 11520	Manufacturer of commercial-grade decorative, period, and antique outdoor-lighting products, including luminaires, posts, and bollards. Materials include cast aluminum and cast iron. Custom products routinely done.	Free Write in No. 497	Curb & pathway, park & street	~	~	~	V			Custom	Exterior, post-mounted	~	O/R		20%
t. Louis Antique Lighting Co. 114-863-1414; Fax: 314-863-6702 301 North Skinker Blvd. 5t. Louis, MO 63130	Custom architectural lighting: incandescent, compact fluorescent, H.I.D. Restoration, reproduction, and retrofitting of historic fixtures for commercial interiors. All styles.	Free Write in No. 6190	Curb & pathway	V	V	~							O/R	~	90%
tone Forest 05-986-8883; Fax: 505-982-2712 vww.stoneforest.com anta Fe, NM 87504	Hand-carved granite fountains & garden ornament, combining Japanese tradition with contemporary design.	Free Write in No. 1108	Curb & pathway					V		Japanese					20%
Stone Manor Lighting 588-534-0544; Fax: 310-457-6285 www.stonemanorlighting.com Malibu, CA 90265	Maker of hand-crafted copper, brass, and leaded- and stained-glass, low-voltage garden lights. Traditional designs available; custom work a specialty.	Free Write in No. 725	Curb & pathway							Garden lighting					75%
'alladega Foundry 156-362-0056; Fax: 256-362-6880 www.talladegafoundry.com 'alladega, Al. 35160	Foundry and fabricator specializing in custom architectural castings and metalwork in iron and aluminum for new and existing designs. Benches, columns, street lighting and signs, mailboxes, fountains, planters.	Free Write in No. 3148	Curb & pathway							Custom					100%
Cexas Metal Industries, Inc. 100-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lamp posts, and urns.	Free Write in No. 9430	Curb & pathway		~										10%
Vulcan Supply Corp. 802-893-0512; Fax: 802-893-0534 2.0. Box 100 Westford, VT 05494	Specialist in replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornices, vented ridge cresting, leader boxes, cupolas, roof vents, and lanterns; all periods and styles.	Free Write in No. 7212	Curb & pathway	~	-			V		Custom			0		60%
Walpole Woodworkers 508-668-2800; Fax: 508-668-7301 www.walpolewoodworkers.com Walpole, MA 02081	Manufacturer and retailer of high-end fencing, small buildings, furniture, and garden amenities. Over 40 standard styles of fence, as well as custom designs.	Free Write in No. 280	Curb & pathway							Wooden lantern posts					40%

182 ■ SEPTEMBER/OCTOBER 2000 TRADITIONAL BUILDING ■



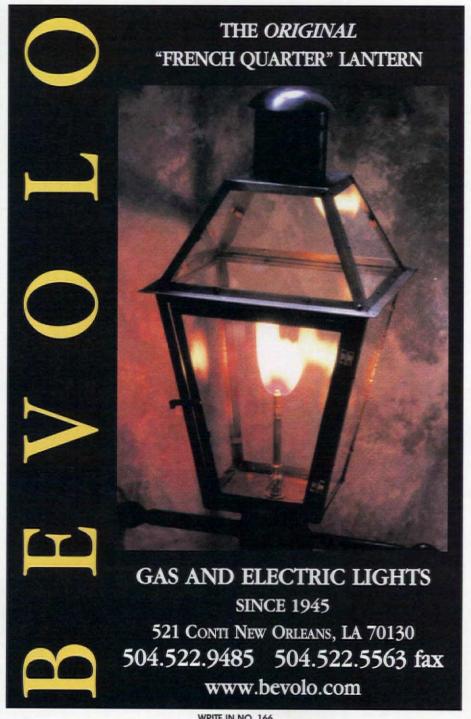


WRITE IN NO. 904



WRITE IN NO. 53



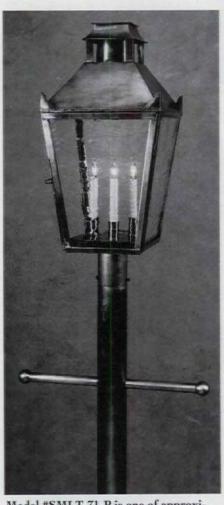


LANDSCAPE & STREET LIGHTING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp.178 - 182.



KING LUMINAIRE's #K118-EO Washington luminaire, a faithful reproduction of one of the many acorn globes used in the early part of the 20th century, is mounted on an attractive periodstyle post. Write in No. 3410



Model #SMLT-71-P is one of approximately 150 reproduction lighting fixtures AUTHENTIC DESIGNS handcrafts in copper, brass, and other metals. Write in No. 60



KAHALLEY LIGHTING, INC., manufactures period gas lighting, such as this model from their 500 series, in hand-crafted copper. Write in No. 3110



BALL & BALL's handsome wall-mounted lantern is available in two sizes, 13 in. wide x 27 in. high and 9 in. wide x 22 in. high. Write in No. 7660



These custom courtyard lights in wrought iron and copper were manufactured by LIGHTING BY HAMMERWORKS. Write in No. 5090



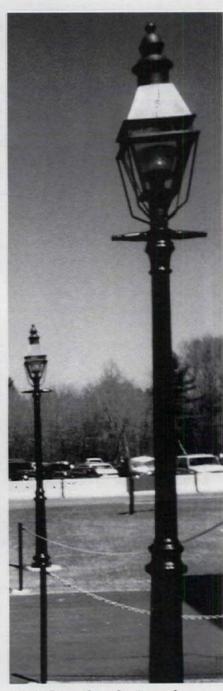
FAUBOURG LIGHTING hand-crafts all-copper gas and electrical lighting in both post-mount and wall-bracket versions. Write in No. 424



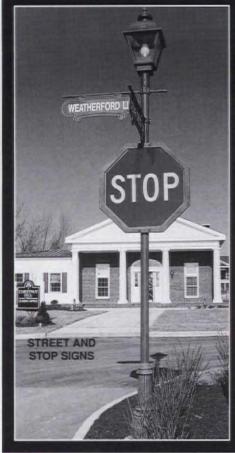
Made from solid copper and brass, NEWSTAMP LIGHTING CO.'s #626PC post lantern is 14 in. wide, 23 in. high, and is available in a variety of finishes. Write in No. 800

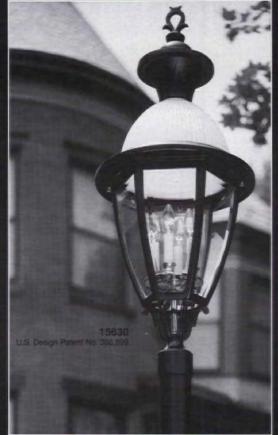


HINKLEY LIGHTING's Brownstone lantern series includes #2080, pictured here, which is cast in solid aluminum and hand-finished in verde. Write in No. 680



Cast in heavy-duty aluminum, the Quincy decorative pole from ALLOY CASTINGS CO. is available in a number of finishes with a range of luminaire options, and is seen here with a Hancock fixture. Write in No. 2711











Hanover Lantern designs and manufactures a complete line of quality handcrafted decorative cast aluminum outdoor lighting fixtures, accessories, posts, mailboxes and low level landscape lighting fixtures for residential and commercial applications.



WRITE IN NO. 3440

Beautifully **Tooled** Aluminum **Light Poles**

For your next landscaping project, Hapco presents the widest range of decorative aluminum light poles available anywhere America. Aluminum promises long life without the frequent painting requirement of steel or fiberglass. Call 1-800-368-7171 for details or visit us on the Internet.

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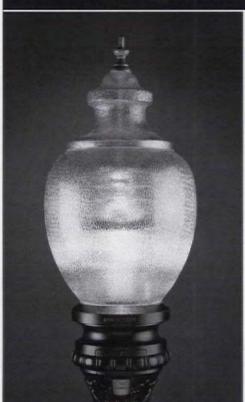
1020-0900

WRITE IN NO. 4070

See our full page display ad on page 5.

WRITE IN NO. 873

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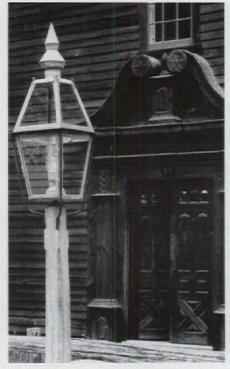
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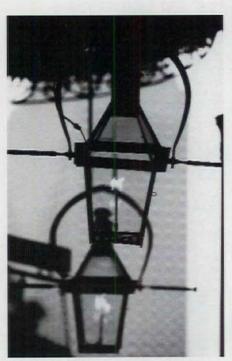
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LANDSCAPE & STREET LIGHTING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp.178 - 182.



The Historic Deerfield line of reproduction lighting from PERIOD LIGHTING FIXTURES is modeled after original lanterns from the historic community. Here, the Ashley House post lantern stands outside the structure from which it takes its name. Write in No. 301



Historic gas lights, evocative of New Orleans' French Quarter, are the specialty of BEVOLO GAS LIGHTING. Write in No. 166



DAHLHAUS LIGHTING's #8431 CH1 terrace lantern features a ladder stay and crown and stands 79 in. tall. Write in No. 2767



MEL NORTHEY's selection of reproduction period street lighting in cast aluminum includes this range of attractive lamp posts. Write in No. 53



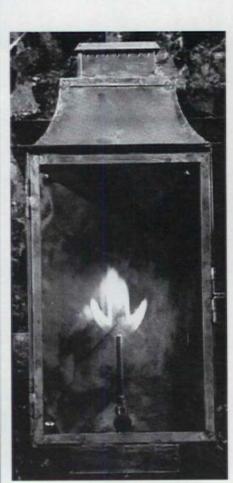
SENTRY ELECTRIC's cast-aluminum Gothic luminaire stands 29 in. tall and has a diameter of 18 in. Write in No. 497



#LP265-12 five-lamp cast-aluminum street light is here shown in the foreground with the single-lamp #LP251-24 in the background. Write in No. 73



This Donato fixture is one of LAGUNA LIGHTCRAFT's hand-crafted solidcopper 12-volt landscape lights. Write in No. 198



The #K-1 Colonial copper gas lantern from COPPER SCULPTURES is 24 in. tall, 11 in. wide, and 8 in. deep. Write in No. 300



This Arts & Crafts-style exterior lantern with glass shade is #M-SQ-4 in the ROY ELECTRIC CO. catalog. Write in No. 430

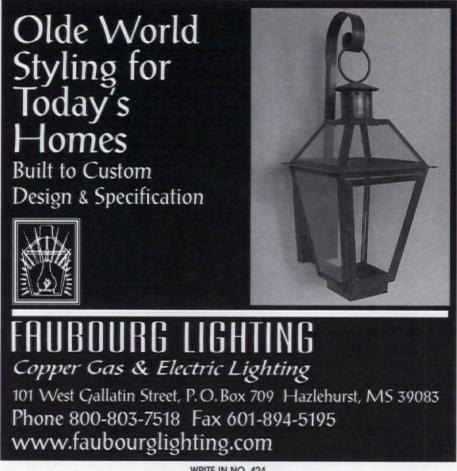


A drop pendant and scrollwork insert are features of HAPCO's Covington Colonial-style lamp post. Write in No. 4070



The inventory at NEW YORK GAS LIGHTING CO. includes lanterns, lamps, and, as pictured here, sconces in many historic styles. Write in No. 5380

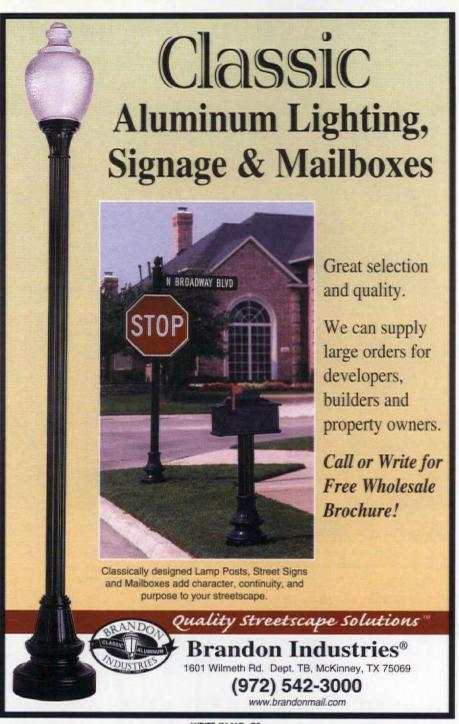


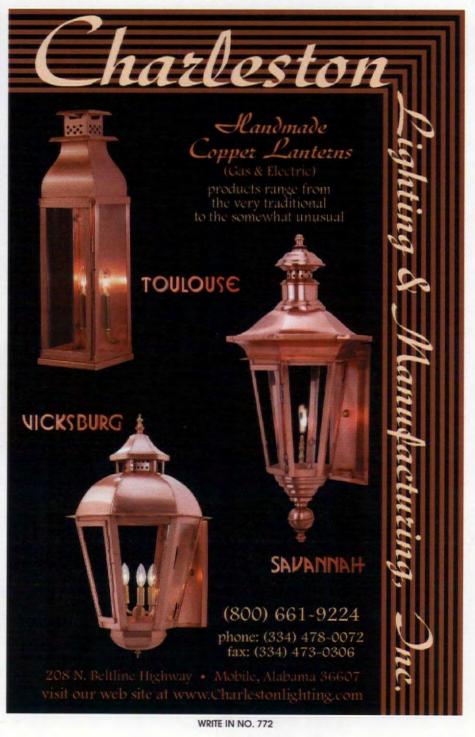


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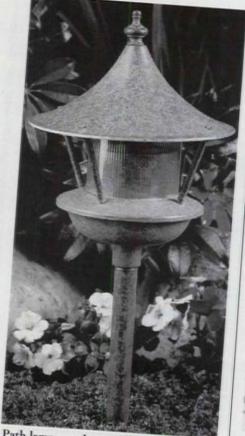


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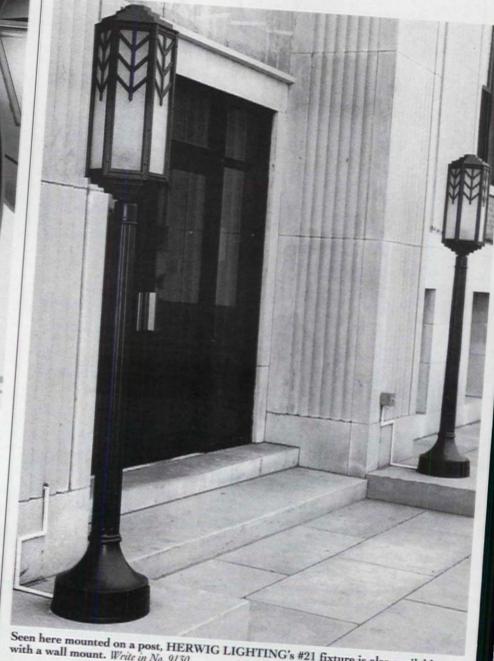
For full contact information on these companies, consult the SourceList on pp.178 - 182.



Path lamps, such as the #BN60 in spun copper with a brass finial and verde finish pictured here, are part of the wide range of landscape lighting available from KIM LIGHTING. Write in No. 873



COPPER HOUSE's #1053 post-mounted lantern is, like all of their post lanterns, available with a medium base socket and chimney, or a three-light candelabra cluster. Call 800-281-9798 for information.



Seen here mounted on a post, HERWIG LIGHTING's #21 fixture is also available with a wall mount. Write in No. 9130



Three of STONE MANOR's fixtures are shown here; the Tiffany Flower, at left, the English Cottage, center, and the Evening Primrose, at right. Write in No. 725



DYNAMIC LIGHTING has a wide range of traditional lanterns and poles in cast aluminum, including this model which is available with either HID or compact fluorescent light sources. Write

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The O'Neil fixture, #W742 from REJUVENATION LAMP & FIXTURE CO., is shown here with a mottled-brass finish and cream art glass. Write in No.



This carriage-house lantern from CONANT CUSTOM BRASS is available in either antique brass, as shown here, or polished brass. Write in No. 620

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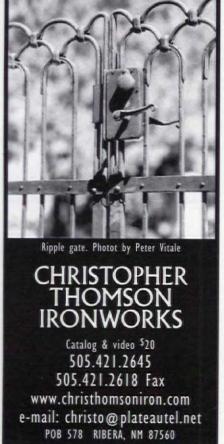
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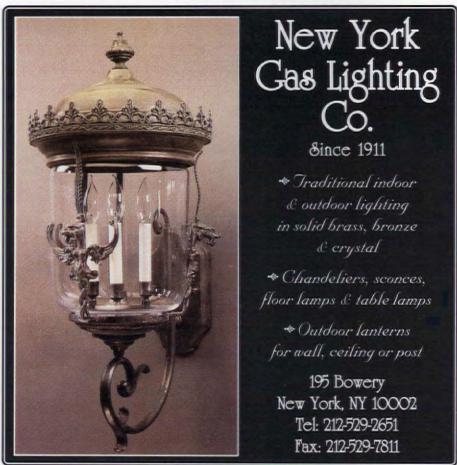


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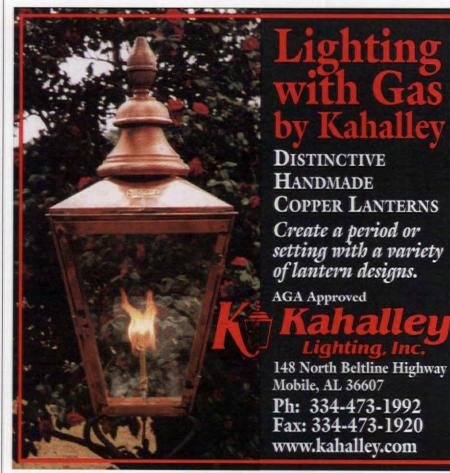
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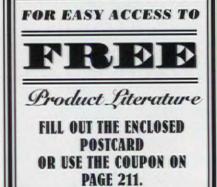


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SourceList 194-202 Portfolio 204-208

THE ALCHEMIST'S ART: TRANSFORMING METAL SURFACES

Over the centuries, sculptors have mastered the art of creating artificial patinas on metal surfaces through a variety of "home brews." Today, many of these one-time "secret recipes" are available in off-the-shelf commercial formulations.

By James R. Marshall

So you've cleaned off the soot and the pigeon droppings, but that old statue now looks as if it has the measles. Or, you've just installed that new copper roof, but it's so shiny that airline pilots are using it for navigation. How can you treat these and other metal surfaces so that they are pleasing to the eye and appropriate to their time and place?

Sculptors and metal workers have wrestled for millennia with the question of how to finish off the surfaces of their creations. True, left to their own devices, most metal surfaces will develop their own finishes, or patinas, given enough time — the soft verde green of aged copper or bronze, the warm rustiness of Corten steel after it has been exposed to the elements for a few years. But who wants to wait around for years or decades for perfection to develop on its own? It's not so surprising then that sculptors and the whole panoply of metal craftsmen have come up with their own alchemy to hasten the aging process for their work through the application of various chemical combinations.

Fortunately for the rest of us, there are a few of these alchemists who are willing to share their secrets and make their home brews available for general use. In this article, we'll talk to three firms who do just that by selling their pre-formulated recipes, along with advice on how to use them. First, however, we'll take a general look at the art and craft of patinating.

The Artificial Metal Finish

In the art of patina, chemicals are used to artificially rust, or oxidize, a metal surface. The colors are often transparent and bond to the metal surface; like natural patina, they often improve with age. While patinas can be applied hot or cold, best results come with heat, which opens the pores and enhances penetration. These patinas are more durable, and produce a wider range of colors than cold applications. Usually, two coats are applied, followed by a protective layer of lacquer, wax or oil.

Architectural elements and building parts can present a particular challenge, according to David A. Baird, one of the founders of Historical Arts & Castings, Inc., of Salt Lake City (see article "The Coloring of Architectural Metal," *Traditional Building*, Jan./Feb. 1997). Because they are large and awkward, architectural elements must often be patinated cold. Also, there is often the need for new components to match an older existing patina. Because aged parts have often been subject to a variety of environmental conditions, there will be problematic discrepancies — particularly with different shades of green. Other problems with on-site patination include the depredations of birds and animals (dogs lifting their legs); and care must be taken to avoid staining stone and concrete surfaces with the patina chemicals.

In his article, Mr. Baird laid out a typical six-step patination process, using the example of a bronze fountain: (1) Preparation: All corrosion products removed, holes repaired, drain holes installed; (2) Patinate: Apply hot diluted solutions, in this case, copper nitrate, ferric nitrate and potassium sulfide, in that order; (3) Clean: All surfaces washed and dried; (4) Clear Coat: One coat of Incralac; (5) Highlighting: Using butchers wax containing dispersed burnt umber and mars black pigments; (6) Wax: A final coat of clear wax, dried and buffed.

Mr. Baird noted in his article that there are many prepared patinating mixtures available; he cautioned that they must be used with extreme care. He also stressed the need for proper initial surface preparation. It must be done first by light sanding with sandpaper, or with careful glass-bead or sand blasting; highly polished surfaces do not take patina well. After patination, the final process is to seal the surface to stabilize and protect it, except in cases where the metal is to age naturally. Waxing is another option; Baird uses two coats of a wood-floor wax containing carnauba, or even Kiwi shoe polish — brown or black — on bronze. In high-traffic areas, the surface can be oiled with a wood furniture oil.

Patinating On A Monumental Scale

Just to get an idea of the scope of our subject, see the article "Conservation on a Grand Scale," in the May/June 2000 issue of *Traditional Building*. Mark Rabinowitz describes the truly "monumental" task of restoring the 80-ft.-tall Soldiers and Sailors Memorial Arch in Brooklyn's Grand Army Plaza, built in 1889-92 to honor those who died during the Civil War in defense of the Union. The arch features massive bronze sculptural groups by the great Beaux Arts sculptor Frederick MacMonnies as well as smaller reliefs by Thomas Eakins and William O'Donovan. According to Rabinowitz, a restoration project of this scale requires a careful assessment by an experienced conservator to determine the monument's condition and to identify the intent of the original artists. For older works of public sculpture, the questions of what was the original appearance

and whether or not to restore it are difficult. Original surface patination and appearance may have been lost to weathering or earlier restorations; outdoor bronzes soon lose all their original patina if not preserved by wax or lacquer.

In the case of the Grand Army Plaza Memorial, the conservators were able to determine, through foundry records and old tinted post cards, that the original color was dark green, deeper and more muted than the current light bluish. The statue groupings were washed repeatedly with moderate-pressure water, detergent and hand scrubbing. After cleaning each grouping was chemically re-patinated using hot methods. Seven separate applications were needed to achieve the desired richness and density of color. Finally, all the bronzes were coated with several layers of Incralac, a copper-corrosion-inhibiting synthetic lacquer. Mr. Rabinowitz predicts a 20- to 30-year period before major recoating is needed.

Help On The Shelf

However, not all metal-finishing and -patinating jobs occur on such a massive scale. To get a better idea of what's available in pre-formulated off-the-shelf products, we talked to three firms that offer a wide range of patina and metal-finishing materials, as well as the expertise to advise on their selection and application.

Metallic Coatings & Patina Finishes (also known as Patina Finishes & Copper Coats) of San Diego, Calif., for example, provides both metal coatings, or "paints," and patina finishes. The company has been in business for 30 years, as a manufacturer of surface coatings for the arts, design, and the construction industry. The coatings — in copper, gold, bronze, pewter, and silver — can be used on virtually any surface, according to the company's manager, Michael Bonaguidi, Jr. They can be applied to sheet metal, wood, wrought iron, aluminum, concrete and masonry, canvas, furniture, cloth, statuary, jewelry, etc. They are most commonly applied as roof coatings over galvanized metal and aluminum surfaces. The liquid coatings are water-based and therefore easy to clean up, and can be applied with roller brush or spray. They are applied in two layers and, upon air curing, form a flexible skin with excellent adhesion.

Mr. Bonaguidi stresses the need for proper preparation as the key to success with these coatings. Metals should be cleaned and, if they are materials susceptible to rust or corrosion, such as wrought iron, steel or aluminum, a two-part epoxy primer, also supplied by the company, should be used. Left untreated, the coatings will darken with age, but will not achieve the verdigris look of regular copper.

The big advantage to these coatings is cost, according to Mr. Bonaguidi: "At one-eighth the cost of copper, they are a safe and economical alternative that achieves the look of a traditional copper roof, and they're durable. Because they're water-based, they comply with EPA VOC regulations."

Patina Solutions

The company also supplies a line of four patina solutions — the typical verdigris green, as well as a light blue, burgundy or black. All four of these patinas can be used on the copper and gold coatings, while only the black and burgundy can be used on the pewter coating. The patinas should be applied soon after the second layer of the metal coatings. They will provide a look that would take 5-20 years to occur naturally. They can also be used directly on metals — copper, bronze and brass. One of the most common applications is to add "instant patinas" to copper roofs and architectural sheetmetal, for example.

This system is a quick and durable solution in areas where atmospheric conditions inhibit natural metal oxidation. The company also offers a clear protective sealer that can be applied to patinated surfaces that will be subject to touching

Bryant Laboratory, Inc., of Berkeley, Calif., supplies a line of patina recipes developed primarily by and for sculptors, but now available for any metal application. The recipes are offered free, and the company sells the chemicals to make them up, or you can buy their line of ready-made patinas, provided by Sculpture Nouveau. According to the company's Eaby Moisson, Bryant began by providing products for sculptors and museums for initial finishing or restoration. Just now, the company is supplying the chemicals for repatinating the base of a large public equestrian statue that had become fouled by "doggy stuff."

Bryant offers three main oxidizers: Cupric and ferric nitrates and potash; the choice depends on the desired color. Also offered is ammonium sulfide, which is used as a darkener. These are hazardous materials, Ms. Moisson cautions, and the application is tricky. She says the company has to discourage customers who want to pick up their chemicals directly and fly home with them;

continued on following page

airport-security people are not sympathetic. For the initial cleaning of the metal surface, Bryant offers sulfuric, nitric, and hydrochloric acids. As for the final protective coating, the company no longer offers Incralac because it does not meet California VOC regulations; instead Bryant offers a conforming substitute, Syncralac.

Do It Yourself - Or Have It Done For You

Sur-Fin Chemical Corp. of Los Angeles was established in 1979, and thanks to strong demand for patinas for metals, the company has grown rapidly. Initially it manufactured a dozen products and supplied them only in Southern California. Over the years, with continuous and intensive research programs, Sur-Fin has developed a unique range of patinas for different metals. Today it manu-

factures more than 100 different products and markets them in the United States, Canada, China, Korea, and Mexico. Sur-Fin now also offers finishing services for those who do not want to get involved in the finishing phase themselves. Sur-Fin serves several industries and application areas, including: lighting fixtures and lamps, electroplaters and anodizers, fabricators, sculptors, hardware, jewelry, copper and galvanized roofs, rain gutters, wind chimes, fences and railings, as well as related industries.

The company offers these general instructions for applying its patinas: (1) Clean the metal using the company's Surclean #400 metal conditioner or #66 cleaner. Follow with a rinse and dry; (2) Apply patina of your choice by a dip, brush, or spray. Let it air dry or wipe dry if necessary. (3) Protect and seal the finish and the metal by using the appropriate Sur-Fin lacquer. These are general instructions, the company cautions; for each individual finish, procedures may vary.

LANDSCAPE ARCHAEOLOGY, continued from page 90

National Historical Park in Brookline, Mass. Here they acquired letters to and from Vaux and Olmsted — invaluable in revealing the thought and concerns of these two creators — and Annual Reports stating works completed, in-progress, and works intended, and some images of the park after completion were acquired.

They then began making direct requests to the public, asking to see anything, any heirloom postcard or family photograph taken at a picnic in the park, images of fiances sitting on boulders, doting parents pushing baby carriages along the paths near the streams — anything that would show them some portion of the park and in particular its water works. As these trickled in, and the annual reports and letters were poured over, the vision of a creation awesome in its scope and marvelous in its details began to emerge.

The Alliance team began to realize, and to at least mentally experience, perhaps for the first time since those earliest, luckiest visitors, that virtually every element, however natural in appearance, was created for specific effects.

"Natural" Features — In A Compressed Space

Consider, for example, the path near the headwaters as approached from the Long Meadow. At first the visitor is treated to a glimpse of the large pond, but fields of wildflowers intercept the view. Before it opens before him, the visitor begins to hear the waterfall issuing from the headwaters. A few steps further a beach opens to him on the left where an expansive pond reflecting sky and trees from the banks beyond spreads out before him. Beyond that are glimpses of another, or perhaps the same pond — he never knows because from nowhere is the entire body of water visible. A few steps further the roar of the waterfall completely captivates him and the path turns to bring it fully into view. At the

base of this torrent swim 300 trout in a clear, shallow pool. This flows over a weir down another falls and enters into the tranquil, fish-filled, bird-inhabited pond with lovely aquatic and margin plants blowing in the breeze. The path then leads him away from the water, only to return him to it after a variety of other sights, sounds and experiences have refreshed his senses — and all this takes place in just a few hundred feet. This degree of sensitivity and dedication to provide the maximum amount of pleasure and experience in a minimum of space is astonishing and it is everywhere throughout Prospect Park.

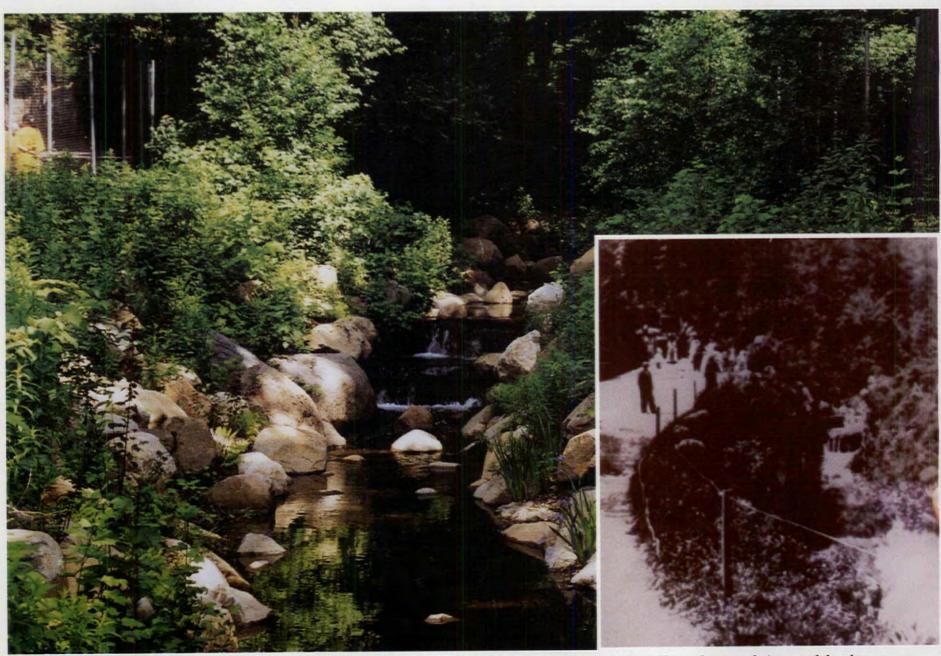
On the one hand this new knowledge of the level of detail made the reconstruction of the park and its water works possible. On the other hand, it made the task infinitely more complex. Not only did these water works need serious repair and rebuilding so that they worked properly and occupied their intended borders, they needed to be as beautiful as the original. In this last respect especially, the photographs proved priceless.

Not that structural work came easy nor, for that matter, was not aided by the photographs. In all the larger bodies of water, for example, Fragmities, an invasive grass, choked the perimeters, blocked views and sent its insidious roots through the clay liner, causing water leaks. Though the park now has access to city water controlled by a valve, as well as the numerous storm-drain lines from the streets outside the park, water levels can be problematic and a water-retentive skin throughout the system is imperative.

Making The Liner Watertight Once Again

A contractor was commissioned to drain and dredge the pond, and a Bentomat liner (made from Geosynthetic clay particles which expand tremendously when wet, spread between two layers of fabric) was set in place where the original brick clay Olmsted and Vaux used had been compromised. At the same time,

continued on page 66



The historic photo (inset) revealed that the path here once curved in harmony with the water course, but had been straightened by a subsequent designer, and that there was once an important waterfall, since buried. The path was restored to its original gracefulness and the fall disburdened of sediment. The fall had been constructed such that water flowed into a hollow beneath the top stone, creating a reverberation audible from the carriage bridge from which the historic photo was taken.



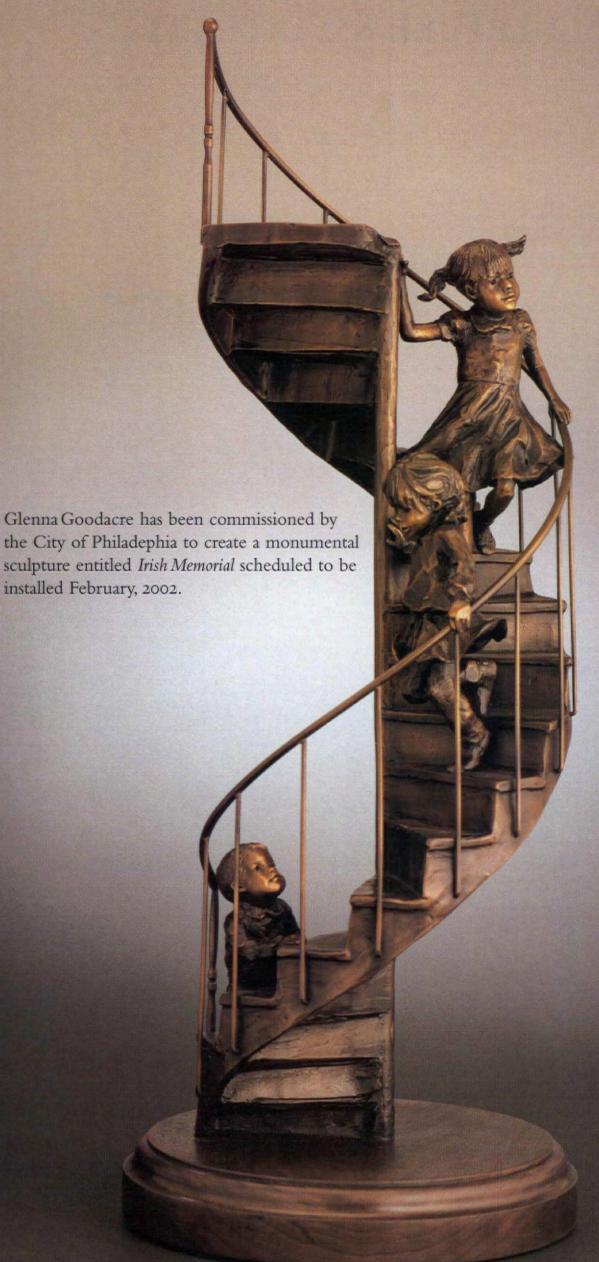


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B&H Art in Architecture, Ltd. 718-422-0802; Fax: 718-422-0866 419 Pacific St., #2 Brooklyn, NY 11217	Architecture, garden, and fine-art sculpture; design, can follow blueprint, photo, or existing model, live model; interior and exterior, any material and size.	Free Write in No. 1009		V	V		V			~			V	~		100%
Ball Consulting 724-266-1502; Fax: 724-266-1504 www.ball-consulting-ltd.com Ambridge, PA 15003	Supplies Forton-modified-gypsum casting system for creating interior and exterior architectural and landscape elements. Consulting and technical service. GFRC and Polytek mold-making materials. Studio for training and prototyping.	Free Write in No. 7260													Casting and moldmaking materials	100%
Bennett Studio 319-592-3228; Fax: 319-592-3463 www.bennettstudio.com Keosauqua, IA 52565	Over 20 years' experience with public sculpture in bronze, ceramics, welded steel, wood, stone, resin, cast iron, plaster, & concrete. Landscape, fountains. Referral & coordination.	Free	~	V	V			Enlarge- ments, memorials	~	~	~	V	~	~	Wood, resins	90%
Brass Baron 800-536-0987; Fax: 800-536-0988 www.brassbaron.com San Diego, CA 92121	Solid-brass garden fountains and statuary, individually hand- cast by the lost-wax method; verdigris- or bronze-patina finishes.	Free Write in No. 200	~	V											Cast brass	0%
Briggs Design 978-465-5593; Fax: 978-465-6489 www.briggssculpture.com Newburyport, MA 01950	Custom sculptures and architectural details in a wide range of styles. Prototypes for casting in metal, concrete, plaster, and resin. Can work from concept, blueprint, photo, or create an original design.	Free		V	V										Fiberglass resin	100%
Bryant Laboratory, Inc. 510-526-3141; Fax: 510-528-2948 www.sirius.com/~bry-lab Berkeley, CA 94710	Supplier of generic chemicals for making patina recipes. Also, books, waxes, and other supplies for patina application.	Free Write in No. 2586													Patina chemicals	N/A
C&G Italian Design for the Home & Garden 404-816-6242; Fax: 404-816-6037 3191 Paces Ferry Place, Suite 100 Atlanta, GA 30305	Provides access to the most skilled craftsmen from remote towns in Italy. Custom work with direct pricing on such items as: garden furnishings & statuary, hand-painted tiles, marble staircases, marble mantels & inlaid stone floors.	Free Write in No. 2808	~													75%
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Machine- & hand-carved products made from Cantera & Adoquin stone, limestone, & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, custom work.	Free Write in No. 31	~	V		V	~						V	~		100%
Canterbury International 800-935-7111; Fax: 323-936-7115 www.canterburyintl.com Los Angeles, CA 90016	Major design/manufacturer of architectural site furnishings, clocks, sculpture, and custom products for over 40 years.	Free Write in No. 1750	~	V		~			~	~	~	~		~		30%
Carlyle, Bobby K Sculptures in Bronze 303-841-4334; Fax: 303-841-4280 www.thespace.com/carlyle Parker, CO 80134	Sculptor makes limited-edition, cast-bronze sculpture, bas reliefs, and also some fountains. Can work with individual designers, architects, and public entities for commissions of new work, from small to monumental.	Free Write in No. 2611	~	~		~		Bas reliefs		~						50%
Casa de Cantera, House of Stone 800-304-6135; Fax: 805-382-1057 3600 South Harbor, Suite 114 Oxnard, CA 93035	Own and operate a stone factory specializing in custom fountains, columns, moldings, fireplace mantels, and more; installation and design.	Free Write in No. 1278		~					-				~			100%
Celestial Memorial Sculpture Studio 802-479-9784; Fax: Same as phone www.celestialmemorials.com Barre, VT 05641	Religious carvings in granite. Also, civic sculptures, in the round, and relief.	Free	~	~	V	~	~	Memorials					V			25%
Clark Design, Ltd. 219-744-9399; Fax: Same as phone 3007 Shawnee Drive Fort Wayne, IN 46807	Architectural, figurative, & custom sculpture. Capabilities include design, modeling, casting, and carving.	Free		~	~	~	~			-			~	-		100%
Colson Studio 888-211-3740; Fax: 941-953-5892 www.colsonart.com Sarasota, FL 34239	Source for clay reliefs, fountains, monumental figurative works, and bronze forms.	Free Write in No. 471		~						~						100%



GLENNA GOODACRE Spiral Staircase bronze, 22 inches (h) edition of fifty

also available: life-size version, 11 ft. (h)

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D TRADITIONAL BUILDING'S SourceList UBLIC SCULPTURE & STATUARY

CSI# 12140

COMPILED BY COLE GAGNE

				Турс	OI	Publ	ne se	ulpture				Mi	iteri	ais		
COMPANY	SPECIALTY	Literature	Standard Designs	Custom	Modelmaking	Casting	Conservation/ Restoration	Other	Cast Aluminum	Cast Bronze	Cast Iron	Fabricated Metal	Natural Stone	Cast Stone	Other	% Custon
Conrad Schmitt Studios 800-969-3033; Fax: 262-786-9036 www.conradschmitt.com New Berlin, WI 53151	Since 1889, studio has created art for buildings of architectural, historic, & religious significance, including bronze statuary, sculpture, murals, & mosaics. Interior design & restoration; stained-glass creation & conservation.	Free Write in No. 8040	S	~	~	~	~		~						Wood	100%
Copper Sculptures 800-235-6725; Fax: 601-992-7099 5230 Hwy 25 Brandon, MS 39042	Company offers finely hand-crafted copper lanterns, mailboxes, posts, and metal furniture.	Free Write in No. 300		~												60%
DeWitt Sculpture Studio 406-586-1603; Fax: Same as phone 1900 Nelson Road Bozeman, MT 59718	Fine-art bronze sculpture in all sizes for private, corporate, and public placement.	Free		~	~	V				~						100%
DiLeo Studio 843-395-9453; Fax: Same as phone 504 E. Hampton St. Darlington, SC 29532	Relief and fully three-dimensional carving in limestone and marble. Other services include wood carving, rubber moldmaking, and casting of plaster and resin ornament.	Free Write in No. 721		~	~	V		Bent-wood suspended sculpture					~		Plaster, resins	100%
DMS Studios 718-937-5648; Fax: 718-937-2609 www.dms-studios.com Long Island City, NY 11101	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 262		~					~	V	~	~	~			90%
duoMatrix, Inc. 888-765-9835; Fax: 610-252-6200 www.smooth-on.com Easton, PA 18042	Has a polymer additive system for alpha-gypsum plasters. Matrix-G enhances physical and performance properties. Castings are stronger, have a shorter de-mold time, and exhibit weather- and UV-resistance.	Free Write in No. 811													Polymer- modified additives for alpha- gypsum & concrete	0%
Dura Art Stone 800-821-1120; Fax: 909-350-9632 www.duraartstone.com Fontana, CA 92337	For 65 years, a specialist in cast-stone site furnishings and interior/exterior architectural ornament; emphasis on cataloged and custom creations.	Free Write in No. 3082	~	V	~	V	~							~		50%
Easy Leaf Products 800-569-5323; Fax: 323-469-0940 www.easyleaf.com Los Angeles, CA 90038	Wholesale supplier of both genuine and composition gold- leaf products; full range of gilding accessories and related products; in stock for immediate delivery.	Free Write in No. 1980													Gold-leaf products	N/A
Edon Corp. 215-672-8050; Fax: 215-672-9014 www.edon.com Horsham, PA 19044	Designs, engineers, and manufactures FRP ornamentation: columns, moldings, cupolas, steeples, cornices, domes, balustrades, sculpture and statuary. Historical replication; theme parks, hotels, and casinos.	Free Write in No. 3117		~	~	~									FRP	30%
Eichinger Sculpture Studio 503-223-0626; Fax: 503-223-0454 www.eichingersculpture.com Portland, OR 97209	Narrative, figurative, cast-bronze sculpture, 3/4-size to larger than life.	Free	~	~	~					~						5%
Elizabeth Street 212-644-6969; Fax: 212-644-8090 1176 Second Ave. New York, NY 10021	Antique garden ornament; custom stonework; recreations of antique garden ornament in the same methods and materials as the originals.	Free Write in No. 3001	~	~				Architectura antiques								50%
Elliot Gantz & Co. Inc. 631-249-0680; Fax: 631-249-0697 115 Schmitt Boulevard Farmingdale, NY 11735	Foundry produces sculpture and architectural elements using lost-wax casting. Custom-designing capabilites, model-making, enlargements and reductions, unique patina, and installation.	Free Write in No. 126		~	~	~	~		v	,		V			A	100%
Fairplay Stonecarvers 440-775-7878; Fax: 440-775-7979 www.fairplaystonecarvers.com Oberlin, OH 44074	Custom-designed stone and marble architectural and landscape ornament and sculpture. Reproduction, repair, and restoration of hand-carved ornamental sculpture, fireplaces, relief carvings, urns, doorways, fountains, capitals, bases.	Free Write in No. 868		~	~								~			100%
Fine Architectural Metalsmiths 845-651-7550; Fax: 845-651-7857 www.iceforge.com Chester, NY 10918	Hand-built signature lighting: entry lanterns, foyer chandeliers, and sconces from award-winning studio. Period or fine custom styling in forged iron, coppers, and bronzes. Exotic patinations.	Free Write in No. 2640		~								V			Copper	100%
Florentine Craftsmen 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101	Garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Also, weathervanes. Custom work a specialty.	Free Call for more information	V						~	V	~		~	~		50%
Garden Art International 949-863-7001; Fax: 949-863-1804 www.elpinc.com Irvine, CA 92614	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, more.	Free Write in No. 2555	V	~							~	~	~	~	GFRC	50%
Gerald Siciliano/Studio Design Assoc. 718-636-4561; Fax: Same as phone www.concentric.net/~gsstudio Brooklyn, NY 11215	Custom and commissioned sculpture in classical and modern styles meticulously crafted in the highest quality materials. Durable and elegant pedestal, wall-mounted, garden, and plaza sculpture on time and within budget.	Free Write in No. 187		V					~	~		~	~	~		80%
Gilders' Studio, Inc. 800-937-GILD; Fax: 301-774-5037 www.gilders.com Olney, MD 20832	Award-winning studio is known for some of the largest and most prestigious exterior and interior gilding projects, including large gilded domes across the U.S. and overseas.	Free Write in No. 8980						Gilding services								N/A
Great Lakes Art Studio 312-226-6166; Fax: 312-275-0017 www.greatlakesartstudio.com Chicago, IL 60612	Landscape, architectural, and interior metalwork in contemporary and historical motifs; custom railings, gates, sculpture, and furniture in bronze, steel, aluminum, iron, and all architectural metals. Casting, patination, and more.	Free Call for more information		V	V	V	~		~	V	V					100%
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	The firm's range of standard designs in reconstructed limestone offers architects & designers the opportunity to use architectural components true in spirit to the orders of classical architecture. Custom designs are also available.	Free Write in No. 4020	V											~		25%
Henri Studio, Inc. 847-526-5200; Fax: 847-526-6782 1250 Henri Drive Wauconda, IL 60084	Designer and manufacturer of cast-stone fountains, statuary, birdbaths, planters, and garden decor. Original designs, custom capabilities.	Free Write in No. 2630	V											~		10%
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210		V		V	~		~	V	~					100%
Issa, Victor Studios 800-720-ISSA; Fax: 970-962-6780 www.victorissa.com Loveland, CO 80538	Sculpture studio specializing in figurative work in bronze. Experience with major liturgical commissions, specialist in religious themes as well as secular themes for public spaces.	Free Write in No. 2906	~	~	~					~						100%

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CSI# 12140

COMPILED BY COLE GAGNE

				Type	of	Publ	ic Sci	ulpture				Ma	teria	ils		
COMPANY	SPECIALTY	Literature	Standard Designs	Custom	Modelmaking	Casting	Conservation/ Restoration	Other	Cast Aluminum	Cast Bronze	Cast Iron	Fabricated Metal	Natural Stone	Cast Stone	Other	% Custon
Kevin Robb Studios 303-431-4758; Fax: 303-425-8802 www.kevinrobb.com Wheat Ridge, CO 80033	Kevin Robb creates individual contemporary sculptures in stainless steel or bronze for intimate environments or large-scale public arenas.	Free	V	V						V		V				80%
Le Jardin Du Louvre 609-924-2743; Fax: 609-497-7369 4451 Route 27 Princeton, NJ 08540	Source of carved-stone landscape ornament, including urns, statuary, fountains, and pavers; custom work available.	Free Write in No. 2568		V									V			100%
Lee Knoll & Associates 610-927-1730; Fax: 610-927-1732 www.art4dzine.com Reading, PA 19610	Studio designs and creates three-dimensional works of art, fountains, and landscape accents in a variety of media. Will create anything you envision, from garden pools and terraces to large-scale, planned environments.	Free Write in No. 2572		V												100%
LepoWorks, Inc. 419-339-5370; Fax: 419-339-2787 4640 Allentown Road Lima, OH 45807	Designs private, public, and institutional artwork; interior and exterior works in a multitude of materials, including metal and wood; wood-carving services.	Free Write in No. 1034		V					~					-	Wood	100%
LeQuire, Alan 615-242-5408; Fax: Same as phone www.alanlequire.com Nashville, TN 37208	Figurative sculptor and portrait artist; monumental, miniature, and life-sized work in all sculpture materials. Email: lequire@mindspring.com	Free Write in No. 5230		V						~						80%
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta.	Free Write in No. 5390		~									V			100%
Lynch & Sons, Inc. 203-762-8363; Fax: 203-762-2999 www.klynchandsons.com Wilton, CT 06897	Top-of-the-line fabricators with an extensive catalog of fountain designs, garden ornament, site furniture (including full park-bench manufacturing capabilities), weathervanes, finials, and gazebos. Custom capabilities.	Free Call for more information	~													10%
MacQueen Sculpture & Fine Arts 805-543-4493; Fax: 805-543-8154 www.macqueenfineart.com San Luis Obispo, CA 93406	Sculpture studio produces garden sculpture and fountains; bronze benches, some with figures attached; glass and bronze balustrades.	Free Write in No. 715		~						~						100%
Marshall Art Conservation & Gold Leaf Studios 214-421-1244; Fax: Same as phone www.marshallgold.com Dallas, TX 75251	Responsible for new and conserved art works throughout the USA. Experts in conservation and restoration of public and private art works; also specializing in gold-leaf applications.	Free Write in No. 6230		~	~	~	~	Gilding & patinas	~	V	~	~	V	~	GFRC	100%
Max-Cast 319-656-5365; Fax: 319-656-3187 www.kctc.net/max-cast Kalona, IA 52247	A full-service sculpture foundry with artists, designers, and foundrymen to help you create your vision in cast iron, bronze, or aluminum.	Free Write in No. 2704		V	V	~			~	V	V					100%
Medallic Art Company 775-246-6000; Fax: 775-246-6006 www.medallic.com Dayton, NV 89403	Since 1903, the firm has produced bas-relief sculpture for premier sculptors, artists, architects, and designers.	Free		~						V						98%
Metalmorphosis Studios 440-275-1351; Fax: 440-275-1361 2600 Forman Rd. Austinburg, OH 44010	Architectural and sculptural metalwork for public, corporate, and residential projects. Hand-forged iron, custom fabrication in all metals; cast bronze and aluminum, repousse copper and brass. Original designs; specialty finishes.	Free Write in No. 1190		~					~	V	~					75%
Mison Concepts, Inc. 516-933-8000; Fax: 516-933-8002 485-33 South Broadway Mineola, NY 11801	Custom architectural metal fabricator, traditional and contemporary; stairs, railings, furniture, facades, showrooms, marquees. Design, detailing, and specialty finishes.	Free Write in No. 2740		~				Custom metalwork				~			Steel, stainless steel, aluminum, bronze, nickel silver	100%
Mitchell Sculpture 303-795-7570; Fax: 303-730-8995 www.theedge.com/hardart Littleton, CO 80123	Large-scale interior and exterior sculpture for public, corporate, and commercial sites. See web site for many colorful examples.	Free Write in No. 2595		~												100%
MJM Studios of NY, Inc. 914-567-1661; Fax: 914-567-6050 www.mjmstudios.com Rock Tavern, NY 12575	Provides in-house design-build & restoration services, including designing, engineering, fabricating, installing, & faux-finishing architectural & ornamental material for the hospitality, new-construction, & restoration industries.	Free		~			~	Classical and traditional sculpture	~	V	~	~		V	GFRC, GFRG, FRP, faux finishes	100%
Modern Art Foundry 718-728-2030; Fax: 718-267-0819 www.modernartfoundry.com Astoria, NY 11105	Art foundry with over 65 years' experience producing lost- wax and sand castings; non-ferrous metals. Specialist in sculpture services, conservation and maintenance, enlargements, and commemorative design services.	Free Write in No. 1810		~	V	~	~	Commemo- rative design	~	V						100%
Nedra Matteucci Galleries 505-982-4631; Fax: 505-984-0199 1075 Paseo De Peralta Santa Fe, NM 87501	Studio represents figurative sculptors Glenna Goodacre and Don Ostermiller.	Free Write in No. 2569	~	~						V						90%
New England Garden Ornaments 508-867-4474; Fax: 508-867-8409 www.negardenornaments.com North Brookfield, MA 01535	Importer of cast architectural ornament from three English companies: Chilstone, Haddonstone, and Yorkstone. Line includes steps and quoins, columns and pilasters, pier caps and copings, porticos, temples and pavilions, cornices.	Free Write in No. 2748	~										~	~		10%
Old World Stone Ltd. 800-281-9615; Fax: 716-842-3038 www.oldworldstone.com Buffalo, NY 14202	Supplier of dimensional-cut limestone and sandstone for new and restoration projects. All work is custom made to suit individual projects, incl. columns, mantels, architectural ornament, signage, garden ornament.	Free Write in No. 2894		V									V			100%
Ornamental Metal Institute of N.Y. 212-697-5553; Fax: 212-818-0976 211 E. 43rd St. New York, NY 10017	Consultations, literature, and seminars on the design and use of architectural and ornamental metals to construction professionals; associated services provided free of charge.	Free Write in No. 5430						Consulting services							All metals	100%
Paragon Garden Art 803-254-5005; Fax: 803-254-7524 801 Huger St. Columbia, SC 29201	Importer of English and Italian cast architectural ornament, including Chilstone, Redwood, and Papine.	Free Write in No. 2751			~											10%
Pettigrew Sculpture 308-233-5504; Fax: Same as phone www.marthapettigrew.com Kearney, NE 68845	A purveyor of monumental sculpture: figurative, wildlife, and equine.	Free Write in No. 2557		V						~						10%
Pittsburgh Art Conservation Laboratory 800-340-9475; Fax: 724-935-5017 www.marshallgold.com Wexford, PA 15090	Specializing in the preservation & restoration of historic structures, monuments, murals, bas relief, sculpture in stone, cast stone, stucco, terra cotta, wood, or metal, as well as new works of art.	Free Write in No. 6230		V	V	~	V	Gilding & patinas	~	~	~	~	V	V	GFRC	100%

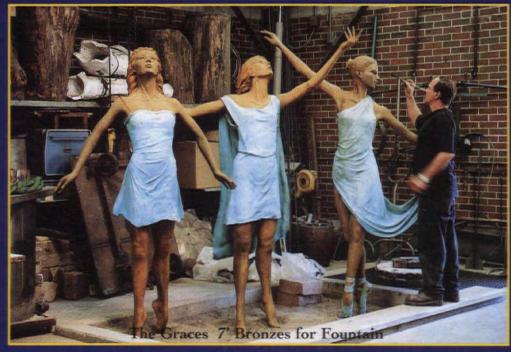


Spirit of Liberty

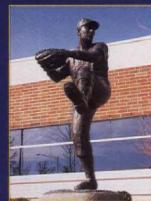


Illumination 7' bronze

Kenneth G. Ryden SCULPTURE



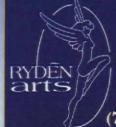




Carl Erskine 6' bronze



Compassion 7' bronze 20' dia fountain



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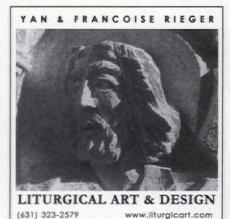


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COMPANY	SPECIALTY	Literature	Standard Designs	Custom	Modelmaking	Casting	Conservation/ Restoration	Other	Cast Aluminum	Cast Bronze	Cast Iron	Fabricated Metal	Natural Stone	Cast Stone	Other	% Custon
Polytek Development Corp. 610-559-8620; Fax: 610-559-8626 www.polytek.com Easton, PA 18042	Manufacturer of liquid-rubber mold-making compounds, based on polyurethane, latex, and silicone, to produce flexible molds for concrete, plaster, and cast stone. All products cure at room temp, with easy-to-mix 1:1 systems.	Free Write in No. 6360	3		,										Moldmaking materials	0%
Price Sculputre Studios 801-489-6852; Fax: 801-489-9588 www.garyprice.com Springville, UT 84663	Life-size and monumental sculpture that 'lifts the human spirit,' for public settings or private residences. Themes range from children at play to birds in flight.	Free Write in No. 1073		V						V						5%
Rankin, Jane — Sculpture 719-488-9223; Fax: 719-488-1650 P.O. Box 1297 Monument, CO 80132	Studio specializes in figurative sculpture. Email: jrankin@magpiehill.com	Free Write in No. 2567		~						~						20%
Reclamation Services, Ltd. 011-44-1452-814064; Fax: 1452-813634 www.recserv.demon.co.uk Gloucestershire, ENGLAND GL6 6SU	Supplier of major architectural features, garden statuary, fountains, fine chimney pieces, hand-forged ironwork, and garden accessories.	Free Write in No. 3151					V	Architectura antiques, garden sculpture			V		V		Lead	0%
Reuter-Twining Sculpture 540-687-8878; Fax: 540-687-5422 www.bronzed.net Aldie, VA 20105	Animal and wildlife sculpture in bronze.	Free	V							~						100%
Rieger Art & Design 631-323-2579; Fax: Same as phone www.i-rieger.com Orient, NY 11957	Large-scale architectural mosaics and murals; sculpture in a range of media; original and contemporary stained- & dalle-de-verre-glass windows. Works created for ecclesiastical and institutional applications.	Free Write in No. 2893		~												100%
Rossato Giovanni, srl/ Vicenza Stone Sculpture 011-39-0444-928499; Fax: 39-0444-928711 www.vicenzastone.com 36100 Vicenza, ITALY MVI 002134	Classic statues, fountains, fireplaces, consoles, columns, bench-seats, balls, pineapples, balustrades, vases, and more. Hand-carved in Vicenza stone. Column heights in multiples of 10 ft.	Free Write in No. 6110	~	V									V			30%
Royalston Arts Foundry 888-801-ARTS; Fax: 978-249-0183 www.tiac.net/users/foundry/ Royalston, MA 01368	Specialist in the restoration of metal sculpture. Also, design and production of fine decorative and functional castings for the home and garden.	Free flyer, catalog \$2.50			V	~	V		~	V					Mixed media	90%
Ryden Arts, Ltd. 765-683-1488; Fax: Same as phone www.thetimmelcollection.com Anderson, IN 46016	Original sculpture by Kenneth G. Ryden. Site and context specific, any scale. Figurative and contemporary. Bronze and other media. Public and private commission work. Studio phone: 765-759-0163.	Free Write in No. 2792		~												100%
Sandifer Sculpture 217-328-3605; Fax: 217-328-5603 www.advancenet.net/~sandifer Urbana, IL 61802	Figurative sculpture in cast bronze. Custom commissions from monumental public work to garden statuary.	Free Write in No. 2596		V						~						90%
Sculptural Designs 800-397-1452; Fax: 210-653-2062 www.sculpturaldesigns.com San Antonio, TX 78217	Figurative and wildlife sculpture in limited-edition bronze and architectural sculpted brick (lifesize, heroic); garden and public fountains. National Sculpture Society member.	Free Write in No. 2574		V	1					V					Sculpted brick	100%
Sculpture Conservation Studio 323-935-7266; Fax: 323-938-1197 1144 South Stanley Avenue Los Angeles, CA 90019	This studio specializes in the preservation of sculpture and monuments; architectural surfaces in stone, stucco, metal, terra cotta, glass, ceramic tile, and wood; fine decorative objects; murals; artifacts.	Free				~	~		V	V	V	~	~	~	Synthetic materials	100%
Sculpture Placement, Ltd. 310-264-2400; Fax: 310-264-2403 www.sewardjohnson.com Santa Monica, CA 90404	Coordinates sales and exhibitions of realistic, life-size bronze sculptures by J. Seward Johnson, Jr.	Free Call for more information		V				Exhibitions		V						30%
Sculpture Sight 205-323-6251; Fax: Same as phone www.bham.net/soe/branko Birmingham, AL 35233	Sculpture studio specializes in large-scale, outdoor figurative and abstract fine-art sculptures in cast bronze, aluminum, and stainless steel.	Free		~	V		V			V		~			Wood	90%
Sculpture Works, Inc. 410-448-1945; Fax: 410-448-2663 www.sculptorjohnston.com Baltimore, MD 21207	Figurative sculpture by Barry Johnston, by commission or from inventory.	Free Write in No. 763		V												90%
Sculptures By Siro 800-488-6492; Fax: 818-706-3376 3405 Ridgeford Drive Westlake Village, CA 91361	Studio creates both limited editions and commissioned sculpture in metal, suitable for indoors and outdoors. Commissions both large and small have been executed internationally.	Free		V						V		~			Cold casting	30%
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"Circle of Peace" (Ring-Around-the-Rosie)

My latest piece - "Circle of Peace" - is a symbol and a participatory teaching aid for life. Let me explain why. I recently watched an interview on TV with a former white supremacist. At age 18 he was imprisoned because of his violent antiracial acts. The interview became extremely interesting as he recounted his reformation while in prison. He said that prior to his sentence he vehemently avoided other races. They were to be hated, abhorred and despised. Overnight he was placed in an environment where interaction with all of mankind was a welcome relief from solitary confinement. Play was introduced in the form of team sports. Relationships developed, bias subsided and upon release from prison he was free from the prejudices and bondage that had tied his hands and soul. Today he takes a radical stand against his sordid past by speaking out in public forums exposing the violence and thought processes of hate groups. Today he coaches youth hockey for multicultural kids.

The story is fascinating to me. The prejudice could only occur when there was no interaction. When the associations occurred, the barriers went down and friendships happened.

To me, that's what this piece represents. Rather than "Ring-Around-the-Rosie," I feel comfortable naming this sculpture "Circle of Peace," for it depicts children from all walks of life playing and enjoying each other. The circle the children form represents the continuum of humanity. The clasped hands represent the interaction and cooperation that engender a humanity full of compassion and respect; respect for each other's uniqueness and compassion that bridges the gap between any indifference. You'll notice I created a space in the circle. It's fascinating to watch children interact with the piece. The second they notice the gap they automatically clasp the two outstretched hands and complete the circle. Exactly so! Each and every child is a vital link in this wonderful circle of life we call humanity!

-Gary Price

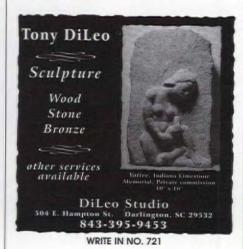
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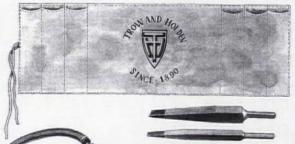
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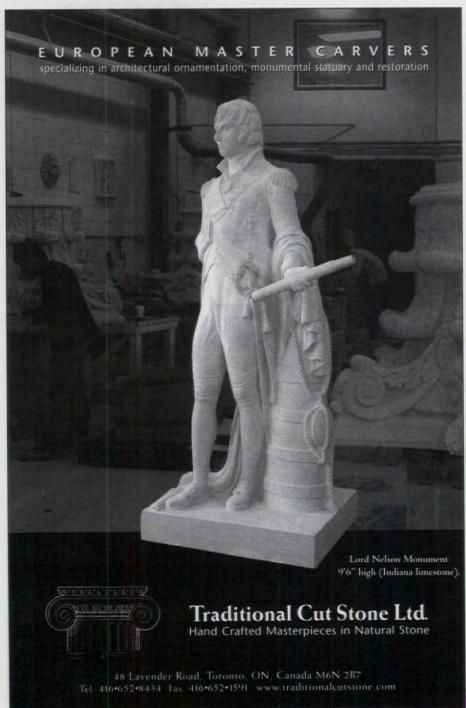


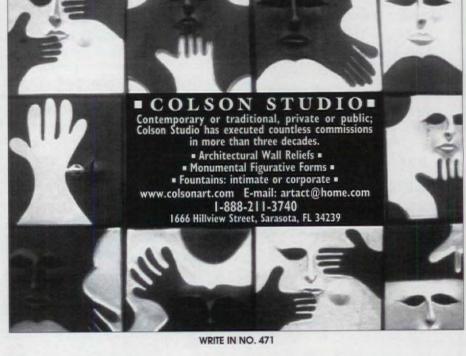
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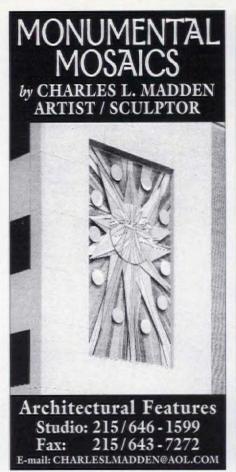
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Weiss Sculpture 702-459-9259; Fax: Same as phone 1330 Honey Lake Las Vegas, NV 89110	Expressive figurative sculpture in hand-crafted wood and stone; bronze, terra cotta, cement. Bas relief for walls and doors. For inside and outside.	Free Write in No. 2797		~						V			~	~	Wood, terra cotta	100%
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LeQuire works in virtually all sculptural materials, both direct carving and casting in his own foundry. He has completed a number of architectural, collaborative and site-specific projects since he began accepting commissions in 1981.

Left: Athena Parthenos, 1990, The Parthenon, Nashville, fiberglass-reinforced gypsum, 42'H

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Sculptor replaces the damaged lower half of this carved goddess face for the Metropolitan Museum of Art, New York City.



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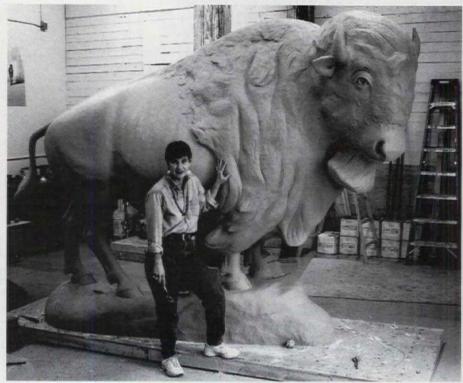
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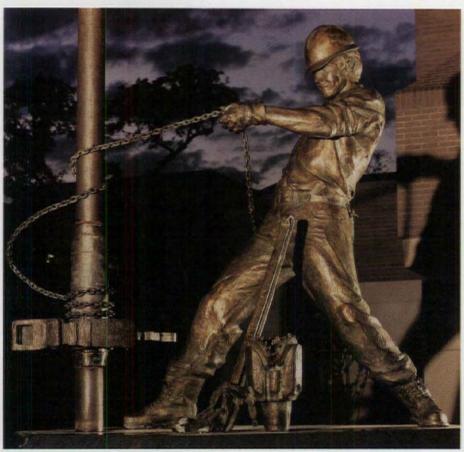
Nike, the goddess of victory in Greek mythology, was sculpted in bronze by ALAN LEQUIRE, a specialist in figura-tive work on all scales. Write in No. 5230



"Chief Blackhawk," a life-size bronze by John Ketner, was cast by MAX-CAST, using the lost-wax technique. Write in No. 2704



Martha Pettigrew of PETTIGREW SCULPTURE STUDIO is seen here working on an 8-ft.-tall bison sculpture. The studio specializes in equine, wildlife, and figurative work. Write in $No.\ 2557$



"Roughneck," a work in cast bronze by Rosie Sandifer of SANDIFER SCULPTURE, is one of the many large-scale commissions undertaken by the firm. Write in No. 2596



Monumental statuary, such as the 9-ft.-6-in.-tall Lord Nelson Monument in Indiana limestone pictured here, is a specialty of TRADITIONAL CUT-STONE. Write in No. 2902



ishing products includes a huge array of gilding materials and gold leaf. Write in



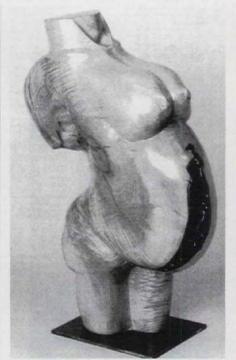
Master sculptor Shi-Jia Chen of B&H ART-IN-ARCHITECTURE works on the restoration of a goddess which sits atop the Metropolitan Museum of Art in New York City. Write in No. 1009



The fine gilding on this war memorial was carried out by the award-winning team at THE GILDERS' STUDIO, INC. Write in No. 8980



VICTOR ISSA STUDIOS' "Sports Buddies" is a life-size cast-bronze work which measures 42 in. high, 30 in. wide, and 15 in. deep. Write in No. 2906



"The Seed Pod," an 18-x-9-x-6-in. piece sculpted in wood, is typical of the fine work of RICHARD B. WEISS SCULP-TURE STUDIO. Write in No. 2797



This stylized piece,"Pugilista," was sculpted in Belgian marble by GERALD SICILIANO. Write in No. 187





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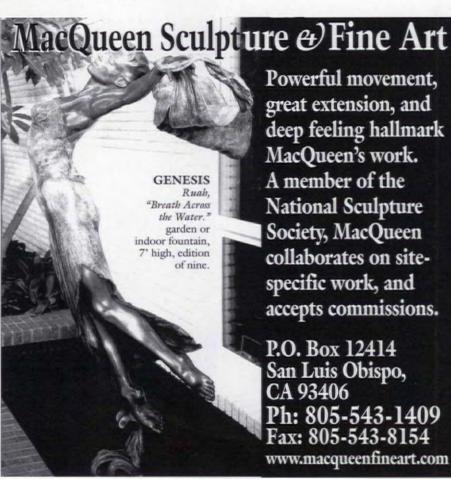
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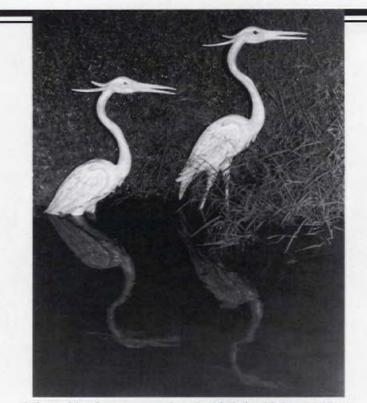


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MACQUEEN SCULPTURE & FINE ART's "Ibis," sculpted in bronze with a base of black marble, was commissioned for the City Hall Rotunda in Mountain View, Calif. Write in No. 715



Charles L. Madden of ARCHITECTUR-AL FEATURES sculpted this figure of the goddess Isis, which is part of a commission for the American embassy in Cairo, Egypt. Write in No. 902



BALL CONSULTING re-created this sculpture in Forton-modified reinforced gypsum from a cast-bronze original. Write in No. 7260



Steel and faceted dalles-glass are combined in this unique bell tower design by REIGER ART + DESIGN for Kellenberg High School in Uniondale, N.Y. The work stands 65 ft. tall and 26 ft. wide. Write in No. 2895



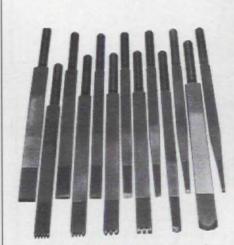
This reproduction of Michelangelo's "The Dying Slave" was carved from the finest Vicenza stone by the artists at ROSSATO GIOVANNI. Write in No. 6110



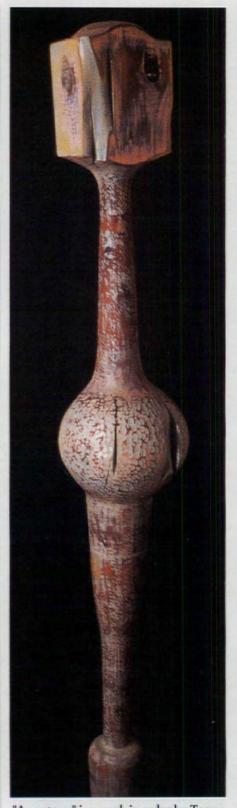
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"Torso of Venus," a 5-ft. bronze by TUCK LANGLAND, exemplifies the artist's feel for the human body. Write in No. 764



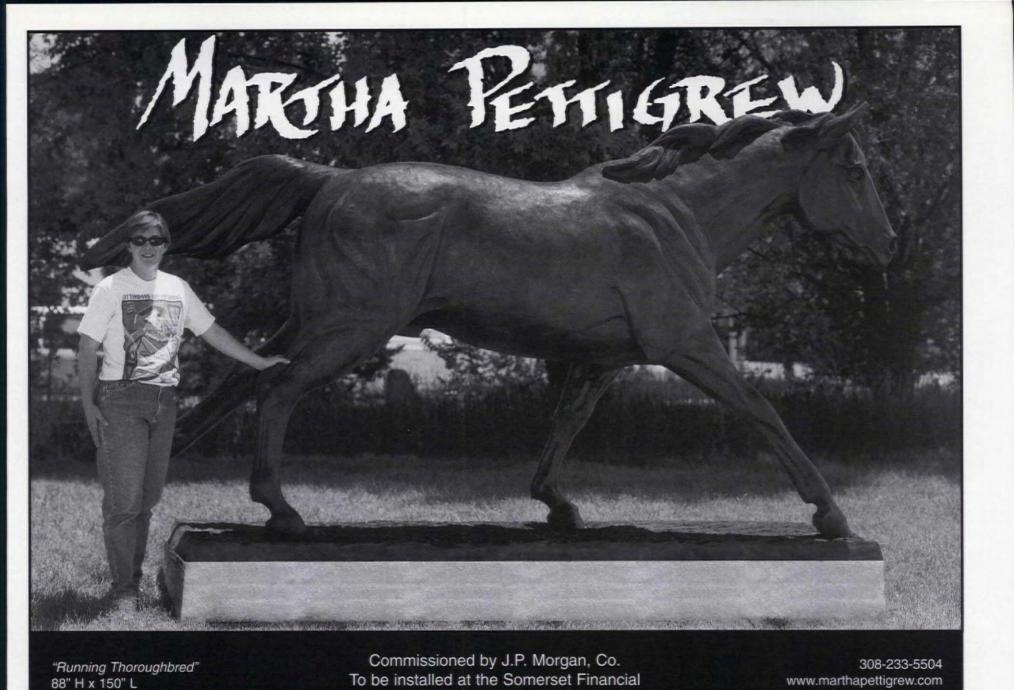
TROW & HOLDEN's huge range of stone-cutting tools includes these carving chisels for use with pneumatic tools. Write in No. 1058



"Ancestress" is a work in cedar by Tony DiLeo of DILEO STUDIOS, which utilizes turning techniques on a number of different axes and finishing with thin layers of pigment. Write in No. 721

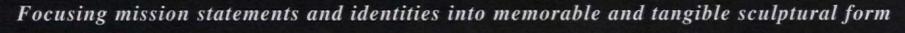


DMS STUDIOS' Dan Sinclair sculpted this evocative depiction of St. Michael in battle with Lucifer for a project in California. Write in No. 262



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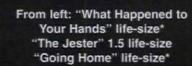
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CONRAD SCHMITT STUDIOS designed and installed this 12-ft.-x-28-ft. sculpture in wood, which depicts the life of St. Therese, for a chapel in Darien, Ill. Write in No.



Mold rubber from SMOOTH-ON, INC., was used in the creation of "Il Cavallo," the finished version of Leonardo da Vinci's 24-ft. horse sculpture, which was installed last fall in Milan. Write in No. 650



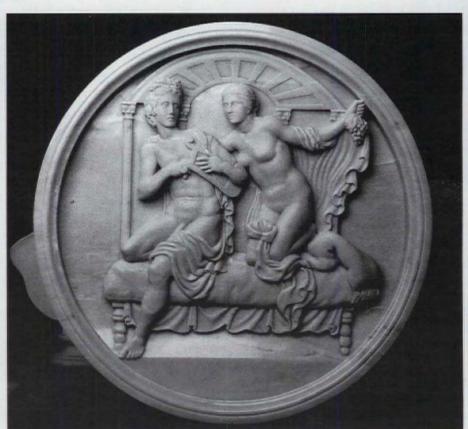
The studios of LEPOWORKS produce large-scale contemporary and traditional public art and statuary in almost any medium. Pictured here is an installation for the 1% For Art public-art project in Toledo, Ohio. Write in No. 1034



"Mother and Child," a public sculpture in Indiana limestone, was carved by SHAN-NON STONE CO. for the city of Salem, Ind. Write in No. 239



"Oceania," a 15-ft. figure in bronze, was executed by COLSON STUDIO for a project in North Miami Beach in Fla. Write in No. 471



The work of FAIRPLAY STONECARVERS is typically figurative, classically influenced, and beautifully executed, as in the case of this medallion relief. Write in No. 868



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This dramatic depiction of the fall of Icarus by George M. Kelly was cast in bronze by MODERN ART FOUNDRY. Write in No. 1810



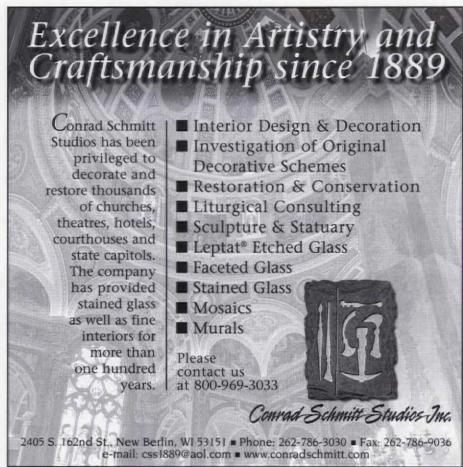
Conservators from MARSHALL GOLD LEAF STUDIOS are seen here cleaning the likeness of G.B. Dealey at the plaza which bears his name in Dallas, Tex.



INTERNATIONAL FINE ART CON-SERVATION STUDIOS was commissioned to do the finishing work, including gilding and decorative painting, on this shrine at the Barsana Dham Ashram in Austin, Tex. Write in No. 9510







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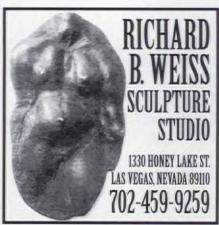
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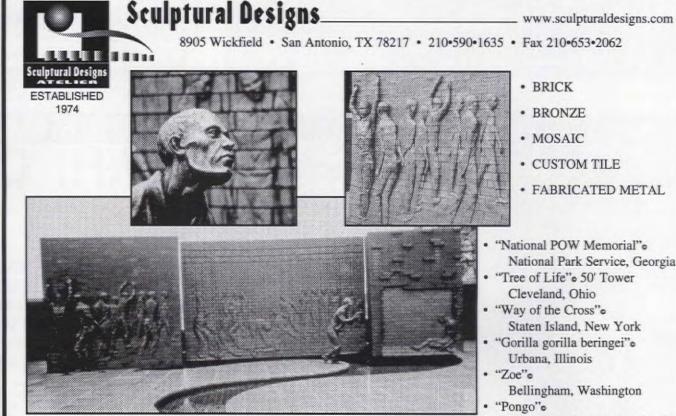
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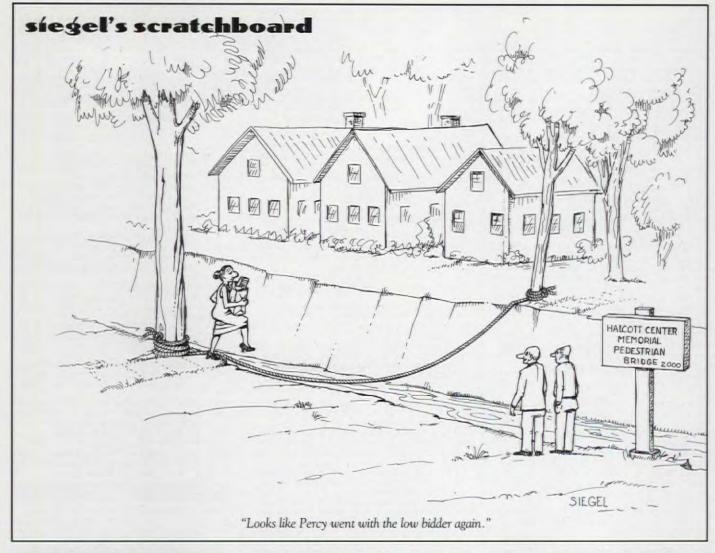
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DIV 10 SPECIALTIES

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3230. Bird and Pest Repellants — Non-toxic chemical roost-inhibitors, visual and sound pest-inhibitors, barriers, and more. Bird-X Inc.

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370. Pigeon Control — Get rid of bird pests with inconspicuous stainless-steel needles that eliminate roosts — without harming the building. Humane and practical Free flyer. Nixalite

282. Cast-Stone Mantels — New line of fireplace mantels; technical assistance for installations. Old World

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DIV 12 ARTWORK/FURNISHINGS

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902. Murals — Venetian mosaics, murals, and art-orks. Also, interior-lighting design services. Architectural Features

4590. Architectural Casting — Cast-plaster sculpture and other architectural elements, including interior cor-nices, capitals, wall plaques, and ornamentation. Free brochure. Architectural Sculpture & Restorations, Ltd.

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2611. Cast-Bronze Sculpture — Sculptor makes limited-edition, cast-bronze sculpture, bas reliefs, and also some fountains. Commissions from small to monumental. Bobby K. Carlyle — Sculptures In

688. Full-Service Glass Fabricator - Full-service art-glass fabricator. Carved, fused, stained, etched, and painted glass for a range of projects. Carvart Glass, Inc. 237. Forged Furniture and Accessories - Handforged beds, tables, lamps, and other furnishings for hotels, lobbies, commercial and residential spaces. Christopher Thomson Ironworks
471. Figurative Works & Fountains — Artists work in

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create statuary, ornament, mantels, entrances, and architectural moldings. Reproductions in marble, limestone, or Free brochure. DMS Studios

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126. Foundry Work — Ceramic-shell casting, sand-casting, and fabrication of elements including fountains, sculpture, architectural elements. Joel Meisner & Co.

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764. Bronze Garden Figures — Allegorical figures in bronze; also, commissioned works, including portrait

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1267. Glass Dome Ceilings — Specialists in making
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1034. Ornament & Sculpture — Firm designs interior and exterior artwork in metal, wood, and a variety of other

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715. Garden Sculpture & Fountains — Sculpture studio incorporates figurative work into benches and water features. Free brochure. MacQueen Sculpture

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porate, and commercial sites. Mitchell Sculpture
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2569. Figurative Sculpture — Studio represents figurative sculptor Glenna Goodacre and produces works for

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2557. Monumental Sculpture — Studio produces
monumental sculpture, specializing in figurative, wildlife,
and equine themes. Pettigrew Sculpture

1073. Bronze Sculpture — Life-size and monumental sculpture; themes include children and wildlife. Gary Price Sculpture Studios
2567. Statuary — Studio specializing in figurative
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DIV 14 LIFTS & ELEVATORS

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9980. Dumbwaiters, Lifts, & Elevators — A wide variety of lifting products for residential applications. Free brochure. Inclinator Co. of America

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DIV 17 ANTIQUE MATERIALS

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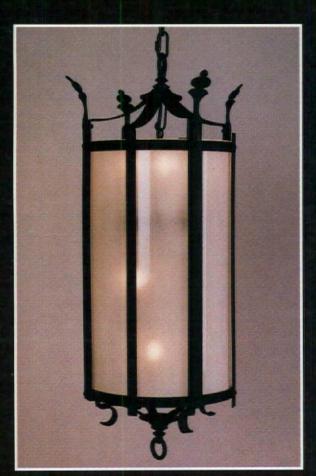
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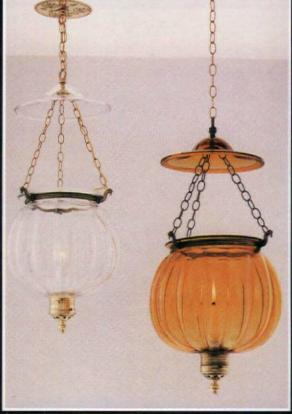
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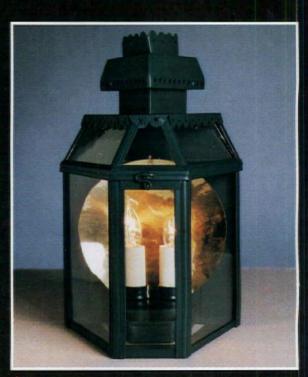


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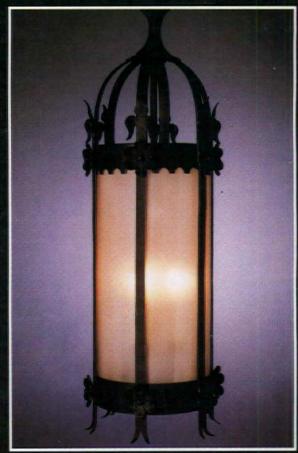
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