

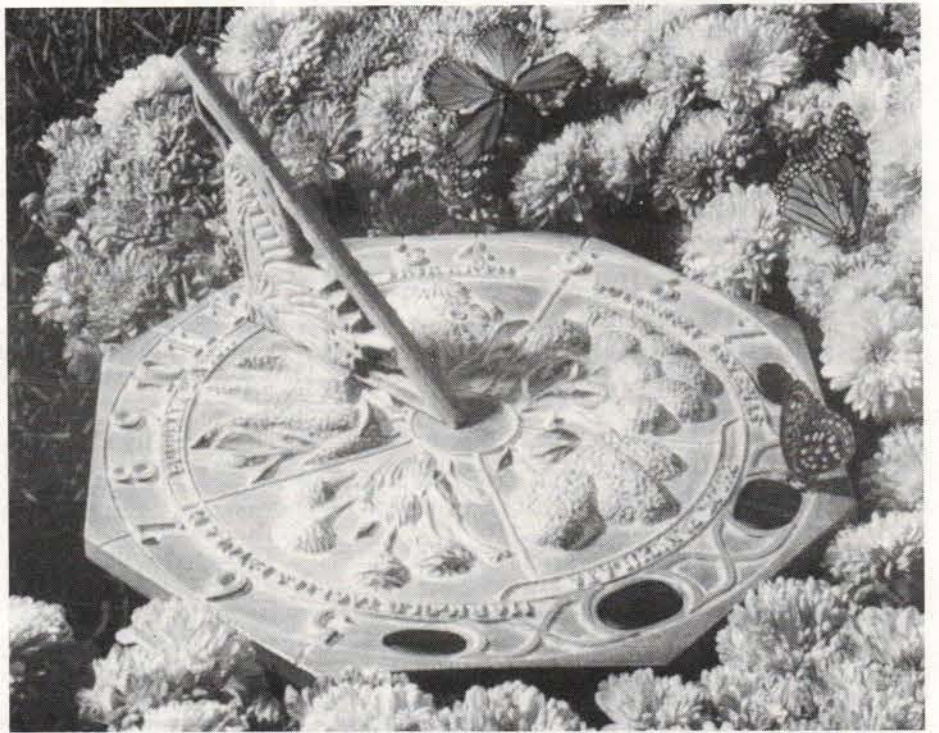
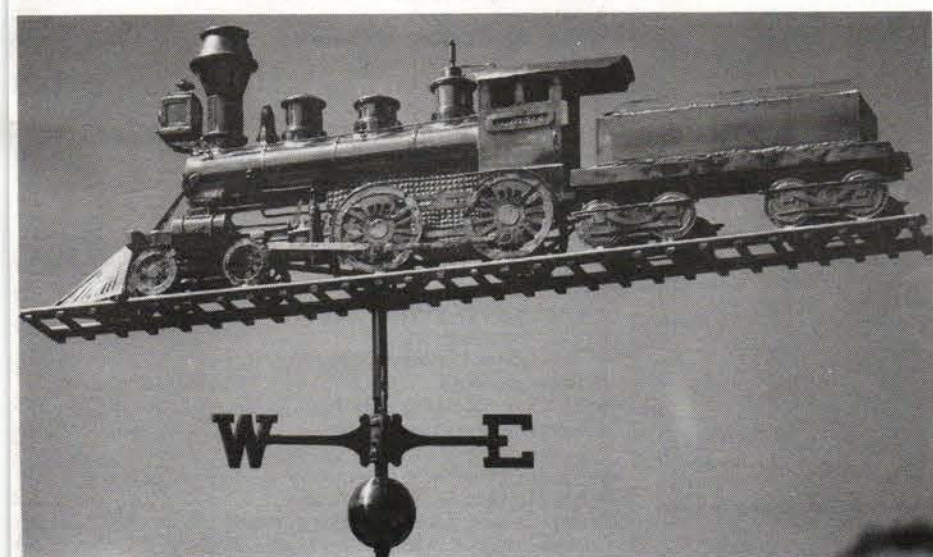
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ARCHITECTURAL

■ Page 1 ■

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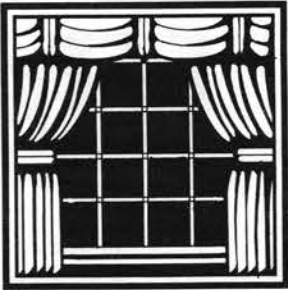


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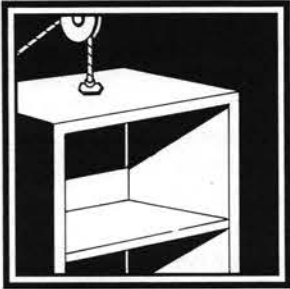
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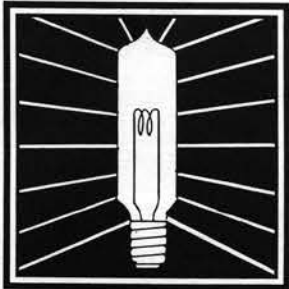
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ON THE COVER (Clockwise from upper left):

■ This detailed locomotive weathervane is 54 in. long and weighs 45 pounds. The smoke-stack is weighted on either side of the pivot point allowing it to turn accurately in the wind. Custom fabricated by WEST COAST WEATHER VANES. See pg. 56 Write in No. 388.

■ Attract Lepidopterae with WHITEHALL PRODUCTS' Butterfly Sundial. This 12-1/2 in. cast aluminum sundial features 4 nectar cups amid depictions of well-known butterfly attracting flowers. See pg. 16 Write in No. 398.

■ Hendricks Tile from RICHMOND PRECAST CONCRETE PRODUCTS is a hand-finished concrete tile that can be made to resemble a wide range of slate, wood, and tile roofing materials. See pg. 44 Write in No. 634.

■ ARCHITECTURAL PANELING, INC. provided mahogany-panelling, Chippendale fireplace, secret compartment in paneling for private residence in New York City (Kenneth Alpert, designer). See pg. 32 Write in No. 341

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in CONSTRUCTION INDEX.

project profile

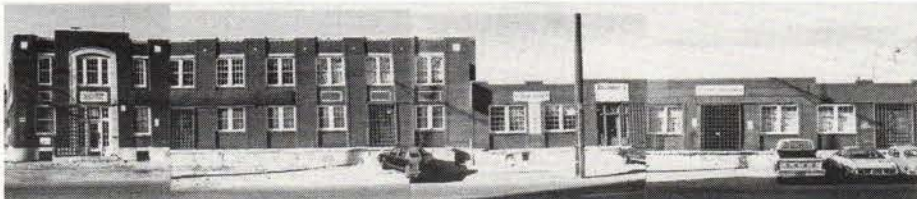
When Baseball Collides With History

Having a major-league ballpark is a coveted municipal status symbol of the '90s. But when a new baseball stadium has to be insinuated into a historic downtown area, an in-your-face rhubarb is sure to erupt.

BY EVE M. KAHN

On three dozen downtown acres once covered by a sprawling rail yard and unglamorous 19th-century warehouses, Denver is inserting a 43,000-seat ballpark called Coors Field. From the bleachers, two years from now, spectators will watch a newly invented team, the Colorado Rockies, play ball against a dramatic backdrop of Rocky Mountains and Denver skyscrapers. And the park — by HOK Sport, of Camden Yards in Baltimore fame — is either an architectural godsend or a nightmare, depending on whom in Denver you ask.

Some observers complain that the Field's construction wiped out nearly a dozen serviceable buildings on the site, and that it may induce a wave of nearby demolition as neighbors prepare for potential parking-lot profits. More enthused locals say that the Field's design pays at least some homage to its



What the ballpark will save, sort of: The Purox building, with its neoclassical trim, was dismantled into numbered pieces and may someday be reassembled, although no one yet knows where. (Photo: courtesy RNL Facilities Corporation)

neighbors with traditional brickwork and low-scale at-the-sidewalk facades and also manages to incorporate three original structures. In other words, neither preservation nor innovation have won or lost in Denver; and this story of compromise may be a morality tale of our times, reflecting just how tricky it has become to build with an eye on past and future.

continued on page 68



What the ballpark will replace: The Windsor Farm Dairy, with its string of bays and its poignantly faint attempts at ornamentation, could not be efficiently incorporated into the design, according to HOK; it was too low, too far back from the sidewalk, and too plagued with fire-code and disabled-access problems to serve as a ballpark-wall section. (Photo: courtesy RNL Facilities Corporation)



What the ballpark will save, sort of: Student Movers rose to the right height for ballpark-wall incorporation, but it will be barely recognizable after overhaul. It will lose its left-flank tower, its patina, its bays, and its signage (although a warehouse-turned-design center of similar proportions and age down the block proudly retains several generations of peeling painted lettering). (Photo: courtesy RNL Facilities Corporation)



How the ballpark will try to fit in: At its most prominent corner, it will feature to-the-sidewalk storefronts, brick walls with sandstone trim, plain marquees hung as of old on exposed supports, and tiers of seats seemingly hovering over the forty-foot-high walls. (Drawing courtesy HOK Sport)

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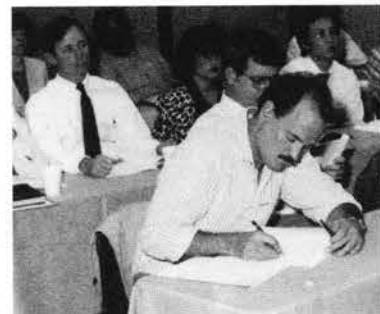
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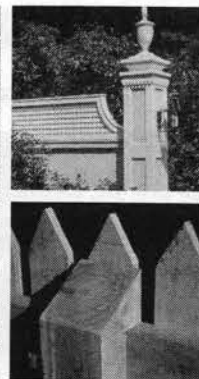
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LANDSCAPE & STREETSCAPE PRODUCTS

special
report

Furnishing Rambles & Respites

■ BY SHARON GARBE

One need only view such 1st century Roman fresco masterworks as

Cubiculum M from the villa at Boscoreale in the Metropolitan Museum of Art, or Livia's Garden from Prima

Porta in the National Roman Museum to be reminded of the ancient tradition of landscaping. The

cultivated garden, once only for the elite, became part of a social reform movement during the 19th century. Frederick Law Olmsted, whose many civic parks set the standard for pastoral design, has been quoted as hoping that his scenic landscapes would "inspire communal feelings among all urban classes, muting resentments over disparities of wealth and fashion." Inherited sentiments such as this, and the burgeoning awareness of environmental resources and preservation issues, make this a time to start paying closer attention to the wisdom contained in the historical landscaping tradition. ♦

Who's On The SourceList

From the overwhelming response we received from the 866 suppliers contacted for this Landscape and Streetscape SourceList, it is clear that period gardens, especially, are on the upswing. We are pleased to present our readers with 85 craftspeople and suppliers of such diverse products as: Gothic follies, monumental urns, grottos, carillons, mulch blankets, railroad ties, rustic bridges, sundials, gazing balls, Colonial and Victorian streetlights, and all manner of exterior furniture including covered seats.

We did not include suppliers of fences, gates, gazebos, or other outdoor structures in this Special Report, because these were covered in separate Reports in our March/April 1993 issue.



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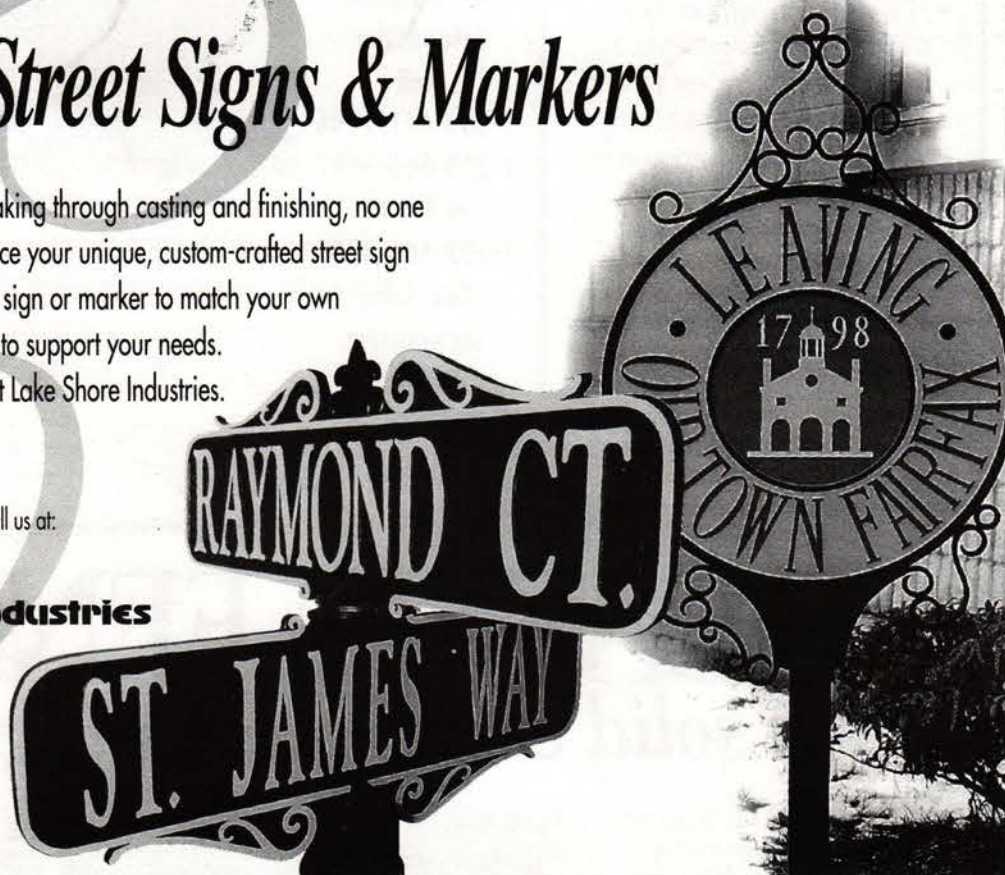
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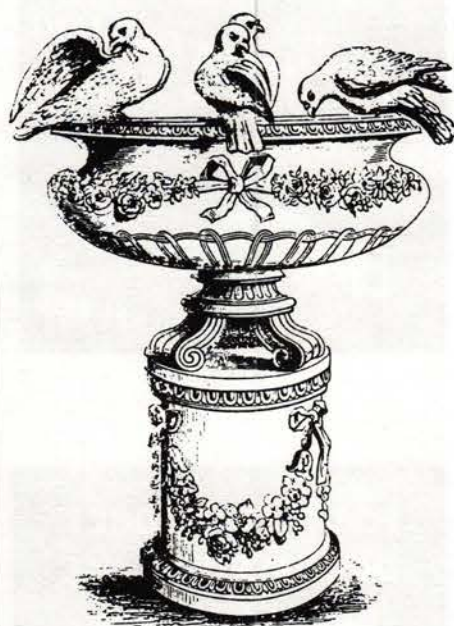


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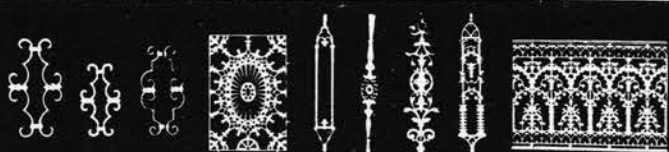
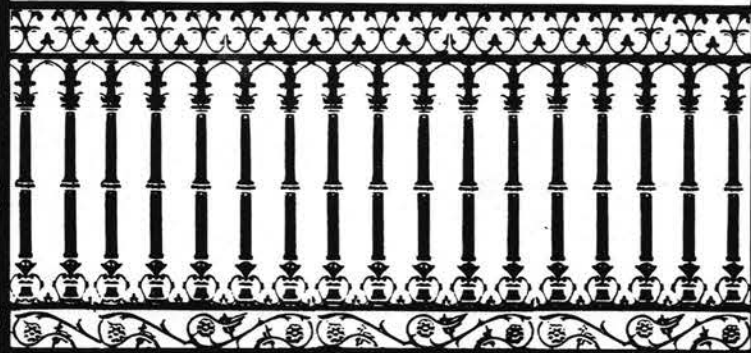
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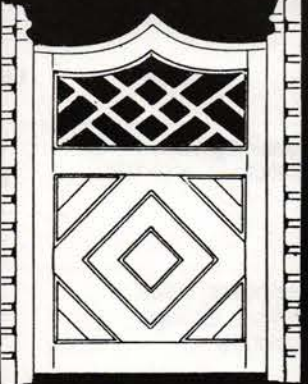
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WRITE IN NO. 103

<div></div> <div><div>TRADITIONAL BUILDING's <i>SourceList</i> of</div><div>LANDSCAPE & STREETScape PRODUCTS</div></div> <div>CSI# 02800</div>												
COMPILED BY SHARON GARBE												
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Architectural Cast Stone 1201 E. Hunter Ave., Dept. TB Santa Ana, CA 92705 (714) 543-6062	Custom cast stone and cast concrete architectural and landscape products. Finishes simulate limestone, granite, quarry key stone, conterra stone, and slate.	Free <i>Write in No. 331</i>	✿	✿	✿		✿	✿			Signage, urns/planters, bollards	60%
Architectural Facades Unlimited 440 W. Julian, #240, Dept. TB San Jose, CA 95110 (408) 298-2758	Company produces exterior and interior products in cast stone, paint-grade cement, GRG, and GFRC. Sandstone, travertine finishes and color matching available.	Free <i>Write in No. 147</i>		✿	✿						Columns, piers, planters, mailboxes	25%
Arizona Flagstone Corp. 1803 N. 40th St. #100, Dept. TB Phoenix, AZ 85008 (800) 767-7775	Company carries stone pavers, tiles, and cladding in 5 colors, for interior and exterior use.	Free	✿	✿			✿				Signage	20%
Barlow Tyrie 1263-230 Glen Ave., Dept. TB Moorestown, NJ 08057 (609) 273-7878	Company specializes in traditionally styled teak benches and dining furniture, as well as planters. All products are made in England and stocked in the USA.	Free <i>Write in No. 954</i>	✿								Planters	
Beacon Products, Inc. 6503-E 19th St. East, Dept. TB Sarasota, FL 34243 (813) 755-6694	Company offers a wide array of outdoor products for commercial and residential sites.	Free <i>Write in No. 417</i>	✿			✿			✿	✿	Bollards & stanchions, street and wall-mounted clocks, planters and urns, waste receptacles, mailboxes	50%
Besco Mfg. Co., Inc. P.O. Box 68, Dept. TB Zelienople, PA 16063 (412) 452-8430	Company produces custom cast-aluminum decorative and architectural products.	Free <i>Write in No. 418</i>	✿		✿		✿	✿				100%
Big D Metalworks 2002 Quincy St., Dept. TB Dallas, TX 75212 (214) 638-8753	Company designs, fabricates and installs a wide range of historic fences and gates, as well as other metal products.	Free <i>Write in No. 603</i>			✿						Fences & gates, kiosks	100%
Blake Ind. P.O. Box 155, Dept. TB Abington, MA 02351 (617) 337-8772	Manufacturers and distributors of site amenities ranging from cast-metal lighting fixtures and seating to custom playground equipment.	Free <i>Write in No. 216</i>	✿			✿	✿		✿	✿	Bollards & stanchions, waste receptacles, planters & urns, street clocks, playground equipment, bike racks	
Boston Turning Works 42 Plympton St., Dept. TB Boston, MA 02118 (617) 482-9085	Manufactures a line of wooden finials for exterior use (brochure available), and custom-turns balusters, posts, newels, columns.	Free <i>Write in No. 475</i>			✿							90%
Brandon Industries, Inc. 4419 Westgrove Dr., Dept. TB Dallas, TX 75248 (214) 250-0456	Manufacturer/distributor of traditionally styled lighting fixtures and other outdoor products.	Free <i>Write in No. 340</i>				✿		✿	✿	✿	Mailboxes, planters/urns	
The Brass Baron 10151 Pacific Mesa Blvd., #104, Dept. TB San Diego, CA 92121 (800) 536-0987	Company offers brass fountains in the forms of swans, ducks, fish, etc., as well as other garden ornaments.	Free					✿	✿			Statuary	0%
The Brattle Works, Inc. Box 536, Dept. TB Cambridge, MA 02238 (617) 864-2110	This company manufactures trellis and lattice works that can be configured in 20 arbor and pergola designs, in cedar and bent oak.	Free <i>Write in No. 184</i>									Trellises, lattice work, fencing	0%
D.M. Braun & Co. 14028 Marquardt Ave., Dept. TB Santa Fe Springs, CA 90670 (310)921-7344	Manufacturers of site and mall furnishings specializing in custom fabrication.	Free	✿								Urns & planters, waste receptacles	50%
Broncex, Ltd. P.O. Box 2319, Dept. TB Corona, CA 91718 (800) 523-9544	Company has been producing custom signage and metalwork for over 150 years in cast bronze and aluminum. Services include designs and pattern making.	Free <i>Write in No. 916</i>					✿				Signage, plaques & cast letters	100%

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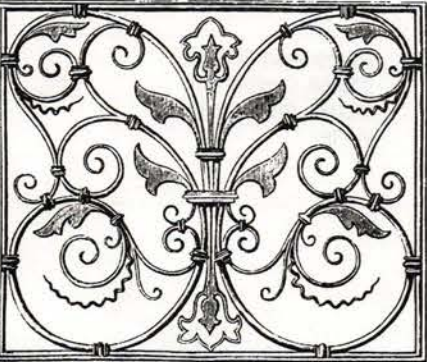
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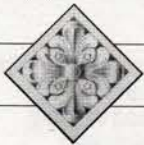
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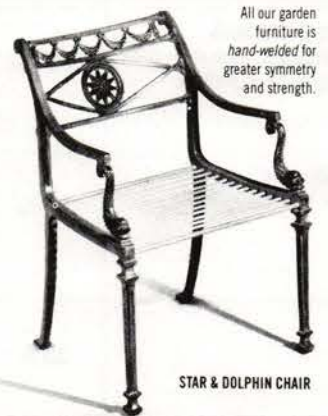
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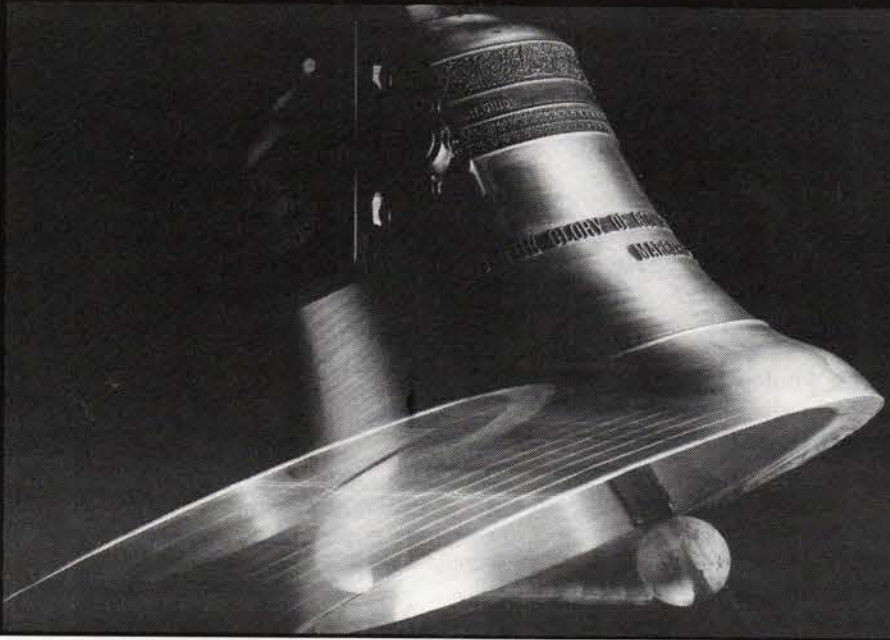
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COMPILED BY SHARON GARBE												
COMPANY	SPECIALTY	Literature	Benches/ Furniture	Pavers/Curbing	Balustrades	Street Lighting	Fountains	Garden Ornament	Lanterns & Post Lights	Garden Lighting	OTHER	% Custom
Buechel Stone Corp. W3639 Hwy. H, Dept. TB Chilton, WI 53014 (800) 236-4473	Quarrier and fabricator of products in Wisconsin Niagra dolomite and granite.	Free		✿							Retaining walls, staircases, waterfalls	15%
Burton Woodworks 4290 Alatex Rd., Dept. TB Montgomery, AL 36108 (800) 489-0097	Company produces traditionally styled outdoor furniture, decking materials and accessories, and wood or PVC lattice.	Free	✿		✿						Mailboxes, lattice, trellises, turnings, handrails	5%
CSI Custom Structures, Inc. P.O. Box 1888, Dept. TB Butler, PA 16003 (412) 282-2712	Manufacturers of standard and custom site furniture in various woods and metals.	Free <i>Write in No. 339</i>	✿								Ash urns, planters, bollards, waste receptacles	
California Rockscape 978 Amelia Ave., Dept. TB San Dimas, CA 91773 (714) 592-6213	Custom design and construction of lightweight, artificial (GFRC) rocks and water systems.	Free					✿				Waterfalls, streams, ponds, grottos	95%
Canterbury Designs International 5632 W. Washington, Dept. TB Los Angeles, CA 90016 (213) 936-7111	Major design/manufacture of architectural site furnishings.	Free <i>Write in No. 343</i>	✿			✿	✿	✿	✿		Tree grates & guards, urns & planters, sundials, street clocks, bollards & stanchions, waste receptacles, statuary	50%
City Visions 311 Seymour St., Dept. TB Lansing, MI 48933 (517) 372-3385	Manufacturers of Heritage Garden Houses in 15 historic designs. Components may be ordered for other uses.	Free <i>Write in No. 903</i>									Gazebos, pergolas	50%
Classic Architectural Specialties 3223 Canton St., Dept. TB Dallas, TX 75226 (214) 748-1668	Cast aluminum streetscape products in 6 standard colors. Lighting globe styles are available in polyethylene, polycarbonate, and glass.	Free				✿					Signage & plaques, mailboxes, urns & planters, street clocks, bollards & stanchions	0%
Classic Casuals P.O. Box 280, Dept. TB Crandall, TX 75114 (800) 874-8618	Aluminum lamp posts, signs, mailboxes, for commercial and residential use. Also, patio furniture and urns.	Free <i>Write in No. 906</i>	✿			✿	✿	✿	✿		Wall sconces, carousel horses, planters	
Classic Garden Ornaments, Ltd. 814 Ridge Terrace, Dept. TB Evanston, IL 60201 (800) 852-2299	Traditional garden ornaments: Urns vases, jardinières, pedestals, plinths, fountains, and statuary. Specializing in English lead, Whichford terra cotta, and Haddonstone.	Free flyer <i>Write in No. 333;</i> catalog set \$25	✿		✿	✿	✿	✿	✿		Restoration of lead figures, custom iron arches, arbors, carved stone	5%
Colonial Castings 15301 N.W. 34 Ave., Dept. TB Miami, FL 33054 (305) 688-8901	Company offers cast-metal furniture and lighting fixtures in historical styles.	Free <i>Write in No. 261</i>	✿			✿			✿			
Cross Industries, Inc. 3174 Marjan Dr., Dept. TB Atlanta, GA 30340 (404) 451-4531	Lattice panels, channels, and installation accessories made from reinforced PVC. Available in 3 weights, 4 patterns, 10 colors, and custom dimensions. Also, polymer-covered lumber posts and rails.	Free <i>Write in No. 23</i>			✿						Zero-maintenance lattice	35%
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D&P Specialty Products 5666 La Jolla Blvd., Suite 300, La Jolla, CA 92037 (619) 672-1111	Manufactures classically designed mailboxes made of 13 separate aluminum and brass castings welded together. Lockable rear access door.	Free									Mailboxes	10%
Delta Wholesale Lighting, Inc. 10610 Culver Blvd., Dept. TB Culver City, CO 90232 (310) 202-7602	Solid-brass light fixtures for gardens and exterior walls. Custom adaptations available.	Free							✿	✿		25%
Elderhorst Bells, Inc. 875 Gravel Pike, Dept. TB Palm, PA 18070 (215) 679-3264	Manufacturers of towerclock bells, bellringers, carillons, and associated control equipment.	Free									Street clocks, carillons	90%
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Florentine Craftsmen 46-24 28th St., Dept. TB Long Island City, NY 11101 (718) 937-7632	Manufacturers of garden ornaments, statuary, fountains, furniture, and accessories in stone, cast iron, lead, aluminum, and bronze.	Free brochure; catalog \$5 <i>Write in No. 439</i>				✿	✿	✿	✿		Urns & planters, cast and hand-carved ornament, sundials, statuary, pools & cisterns	



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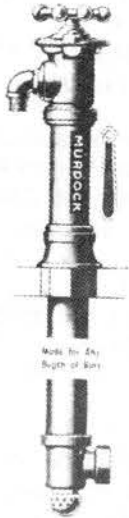
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Garden Concepts, Inc. P.O. Box 241233, Dept. TB Memphis, TN 38124 (901) 756-1649	Traditional wood and metal garden structures and site furnishings.	Catalog \$5.	✳					✳			Mailboxes, urns & planters, waste receptacles	75%
Garden Ornaments Stone P.O. Box 1451, Dept. TB Roswell, GA 30077 (404) 475-2127	Small to monumental hand-carved ornaments, site furnishings, and architectural components in Vincenza stone.	Free <i>Write in No. 442</i>	✳		✳		✳	✳	✳		Urns & planters, statuary, staircases, hand-carved ornaments	20%
Garden Source Furnishings 200 Ottley Dr., Dept. TB Atlanta, GA 30324 (404) 885-1444	Wrought iron and cast aluminum line of garden seating and dining sets, and American willow and hickory twig furniture.	Free	✳									0%
Goodwin International 2915-D Redhill Ave., Suite 101, Dept. TB Costa Mesa, CA 92626 (714) 241-0942	Company offers garden and site products in Vincenza stone, terra cotta, and bronze.	Free <i>Write in No. 416</i>	✳		✳		✳	✳			Urns and planters, columns, finials, statuary, hand-carved ornament	100%
Green Enterprizes 43 South Rogers St., Dept. TB Hamilton, VA 22068 (703) 338-3606	Company specializes in Victorian furniture such as swings, gliders, tables, and bench sets.	Free <i>Write in No. 966</i>	✳									100%
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Hanover Lantern 470 High St., Dept. TB Hanover, PA 17331 (717) 632-6464	Design-manufacturers of cast titanium/aluminum lighting fixtures, poles, bollards and accessories for commercial, residential, and landscape lighting applications.	Free <i>Write in No. 344</i>				✳			✳	✳	Bollards & stanchions	26%
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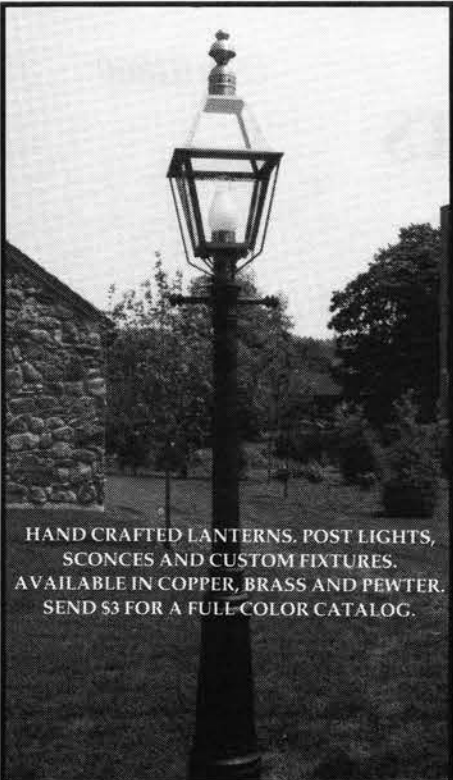


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<div></div> <div>TRADITIONAL BUILDING's <i>SourceList of</i> LANDSCAPE & STREETSCAPE PRODUCTS</div> <div>CSI# 02800</div>												
COMPILED BY SHARON GARBE												
COMPANY	SPECIALTY	Literature	Benches/ Furniture	Pavers/Curbing	Balustrades	Street Lighting	Fountains	Garden Ornament	Lanterns & Post Lights	Garden Lighting	OTHER	% Custom
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Lake Shore Industries, Inc. P.O. Box 59, Dept. TB Erie, PA 16512 (814) 456-4277	Manufacturers of custom cast aluminum signs and plaques. Specialize in street signs, town seals, historical markers, and custom work.	Free <i>Write in No. 873</i>									Signage & plaques, cast ornament	100%
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Lewin Brick Lettering 2218 Dixie Hwy., Dept. TB Ft. Mitchell, KY 41017 (800) 745-1340	Company inscribes names into bricks.	Free <i>Write in No. 277</i>		✿								100%
Lighting By Hammerworks 6 Fremont St., Dept. TB Worcester, MA 01603 (508) 755-3434	Reproduction Colonial lanterns, posts, and wall mounted lanterns available in a variety of finishes.	Free <i>Write in No. 604</i>				✿			✿			
Lynch & Sons P.O. Box 488, Dept. TB Wilton, CT 06897 (203) 762-8363	Company offers large selection of teak, wrought iron, brass, and stone benches, as well as site and garden ornaments.	Free	✿				✿	✿			Sundials, topiary, planters & urns	
Mel-Nor 303 Gulf Bank, Dept. TB Houston, TX 77037 (713) 445-3485	Company specializes in cast aluminum site products and lighting.	Free <i>Write in No. 406</i>	✿			✿			✿	✿	Mailboxes	
Midwest Railroad Tie Sales, Inc. 243 E. Winslow Rd., Dept. TB Bloomington, IN 47401 (812) 339-8437	Wholesale suppliers of used railroad ties and timbers. 3 grades available; also switch ties and bridge timbers.	Free									Retaining walls, fences.	0%
Murdock, Inc. 2488 River Rd., Dept. TB Cincinnati, OH 45204 (513) 471-7700	Manufactures a complete line of outdoor drinking fountains and hydrants. Custom capabilities.	Free <i>Write in No. 378</i>					✿				Drinking fountains, hydrants (post & flush box type), pool & beach showers	
Newstamp Lighting P.O. Box 189, Dept. TB North Easton, MA 02356 (508) 238-7071	Custom indoor and outdoor lighting in all styles from metal, glass, and plastic. All energy sources, including gas. Catalog available in Colonial-style fixtures and lanterns.	Free <i>Write in No. 80</i>				✿			✿	✿		50%
Noral Lighting P.O. Box 360532, Dept. TB Cleveland, OH 44136 (216) 273-7155	Cast aluminum lighting fixtures with shatter-resistant lenses. Some designs can be adapted for both wall or post mounting.	Free <i>Write in No. 290</i>				✿			✿			
O'Brien Ironworks 1760 Monrovia Ave., B3, Dept. TB Costa Mesa, CA 92627 (714) 646-3290	Cast and wrought iron home and garden products using iron from recycled automobile engine blocks.	Free <i>Write in No. 379</i>	✿					✿			Planters & urns	10%
Old Virginia Brick P.O. Box 508, Dept. TB Salem, VA 24153 (703) 389-2357	Company offers traditional wood-molded bricks and specialty bricks, such as tapered arch bricks, oversized bricks, molded shapes (sill and tread bricks, coping bricks, etc.). Paving bricks come in 12 colors.	Free <i>Write in No. 90</i>		✿								
Pacific Engineered Products 1150-A Calle Cordillera San Clemente, CA 92673 (714) 366-9108	Waterscape control specialists; custom controls for fountains, lakes, streams, and waterfalls.	Free					✿				Water & fountain controls	100%
Pashayan 1053 Metropolitan Ave., Dept. TB Brooklyn, NY 11211 (718) 384-3228	Company specializes in authentic reproductions of 18th-c. French lampposts, lighting fixtures, and furniture.	Free <i>Write in No. 364</i>	✿		✿			✿	✿			100%
Phoenix Carved Stone P.O. Box 1259, Dept. TB Lampasas, TX 76550 (512) 556-8607	Custom cutting, carving, and turnings of limestone landscape and architectural products in traditional and contemporary designs. Can provide design services.	Free <i>Write in No. 287</i>	✿		✿		✿	✿	✿		Signage & plaques, urns & planters, sundial bases, Japanese lanterns, pagodas	100%
Popovitch Assoc. Inc. 346 Ashland Ave., Dept. TB Pittsburgh, PA 15228 (412) 344-6097	Garden light fixtures in shape of flowers, for ground and wall installation. Bases are galvanized aluminum, stems are copper. Globes are ceramic, glazed in and out.	Free <i>Write in No. 381</i>								✿		0%



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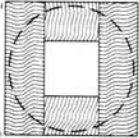
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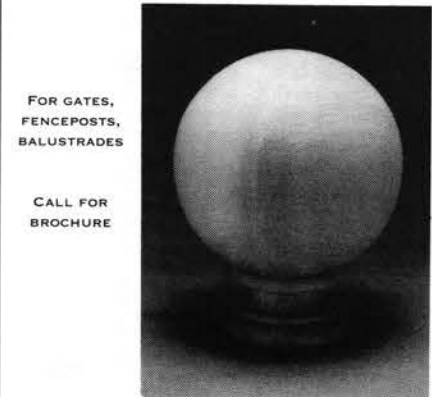
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TRADITIONAL BUILDING's <i>SourceList of</i> LANDSCAPE & STREETSCAPE PRODUCTS												
COMPILED BY SHARON GARBE												
COMPANY	SPECIALTY	Literature	Benches/ Furniture	Pavers/Curbing	Balustrades	Street Lighting	Fountains	Garden Ornament	Lanterns & Post Lights	Garden Lighting	OTHER	% Custom
Red Baron's Antiques 6450 Roswell Rd., Dept. TB Atlanta, GA 30328 (404) 252-3770	Marble and stone statuary, fountains, garden ornaments and furniture, as well as architectural site products. Holds 2 large auctions a year; ever-changing inventory.	Free	✿		✿	✿	✿	✿	✿		Urns & planters, cast & hand-carved ornament, street clocks, statuary, staircases	0%
Reed Brothers 5601 Henning Rd., Dept. TB Sebastopol, CA 95472 (707) 795-6261	Company specializes in hand-carved, country-style furniture in redwood for outdoor use, and pine for indoors.	Free	✿									100%
Robinson Flagstones P.O. Box 208, Dept. TB Ft. Washington, PA 19034 (215) 646-3500	Company fabricates flagstones from Pennsylvania Bluestone (not slate) which can also be used for interior applications such as fireplace mantels and surrounds.	Free <i>Write in No. 979</i>		✿								100%
Rockscapes Inc. 11825 Major St., Dept. TB Culver City, CA 90232 (310) 474-5033	Company specializes in low-voltage landscape lighting.	Free <i>Write in No. 332</i>						✿	✿	✿	Mailboxes, portable waterfalls	10%
Wm. Bateman Ruffner & Co. 643 South Peoria, Dept. TB Tulsa, OK 74120 (918) 584-0856	Company produces elegant metal birdcages in limited editions that fall into the category of exterior architectural ornament. Custom designs.	Catalog \$10.									Exterior ornamental bird cages	100%
Spring City Electrical Mfg. P.O. Box 19, Dept. TB Spring City, PA 19475 (215) 948-4000	Cast iron high-performance lighting and traffic control systems from custom designed products to historic reproductions.	Free <i>Write in No. 103</i>				✿			✿	✿	Signage & plaques, mailboxes, cast ornament, street clocks, bollards & stanchions	100%
Stone Forest, Inc. P.O. Box 2840, Dept. TB Santa Fe, NM 87504 (505) 986-8883	This company creates hand-carved granite garden ornaments and lighting which combine Japanese and western design elements.	Free <i>Write in No. 414</i>	✿	✿			✿	✿	✿	✿	Hand-carved ornament, bird baths, stone spheres, sundial plinths, pedestals	20%
The Thaxted Cottage Gardener 121 Driscoll Way, Dept. TB Gaithersburg, MD 20878 (301) 330-6211	Historic English-style covered garden benches which are well-suited for public parks, gardens, church grounds, golf courses, and private residences.	Free <i>Write in No. 386</i>	✿									
Thomas Studio, Inc. 10809 Crestview Dr., Dept. TB Jonestown, TX 78645 (512) 267-0051	Commissioned figurative and abstract cast bronze or stone sculpture. Architectural and restoration castings and fabrications in bronze, aluminum, and composites.	Free <i>Write in No. 801</i>	✿				✿	✿			Urns, planters, sundials, hand-carved and cast ornament.	100%
Timeless Garden P.O. Box 5406, Dept. TB Arlington, VA 22205 (703) 536-8958	This small company researches and reproduces historic garden gates. The gates are handcrafted, one at a time, from clear all-heart redwood.	Free <i>Write in No. 990</i>									Historic gates	100%
Trimble House Corp. 4658 Old Peachtree Rd., Dept. TB Norcross, GA 30071 (404) 448-1972	Company offers traditional gas and electric lanterns and street lights.	Free <i>Write in No. 105</i>				✿			✿	✿	Bollards	20%
Urban Archaeology 285 Lafayette St., Dept. TB New York, NY 10012 (212) 431-6969	Architectural antiques and one-of-a-kind lighting fixtures from the Victorian period through the 1940's, as well as line of reproduction light fixtures.	Free <i>Write in No. 299</i>	✿			✿	✿	✿	✿	✿		
Verdin Company 444 Reading Rd., Dept. TB Cincinnati, OH 45202 (800) 543-0488	Manufactures a wide variety of streetclocks, tower clocks, and clock chiming systems. Also bells and bell ringing equipment; clock and bell renovation and servicing.	Free <i>Write in No. 435</i>									Street clocks, carillons, bronze bells	
Walpole Woodworkers 767 East St. (Rt.27), Dept. TB Walpole, MA 02081 (508) 668-2800	Manufactures wide variety of period fences and gates, from peeled-pole pickets to exact copies of Colonial Williamsburg originals. Gazebos	Free									Fences, gates, gazebos	25%
Western Wood Structures P.O. Box 130, Dept. TB Tualatin, OR 97062 (503) 692-6900	Designers and suppliers of treated timber bridges from 20 ft. to 100 ft. spans, for all types of loading and uses.	Free									Wooden bridges	50%
Windsor Designs 37 Great Valley Pkwy., Dept. TB Malvern, PA 19355 (800) 783-5434	Garden furniture in traditional and contemporary designs, made in teak, rosewood, and cast aluminum.	Free <i>Write in No. 328</i>	✿									
Whitehall Products, Ltd. 8786 Water St., Dept. TB Montague, MI 49437 (800) 624-8643, (616) 894-2688	This weathervane company now offers decorative garden accessories, such as sundials and birdbaths. The cast aluminum products have a weathered bronze finish.	Free <i>Write in No. 398</i>									Sundials, birdbaths	0%



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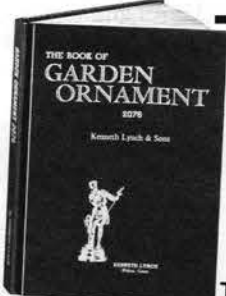
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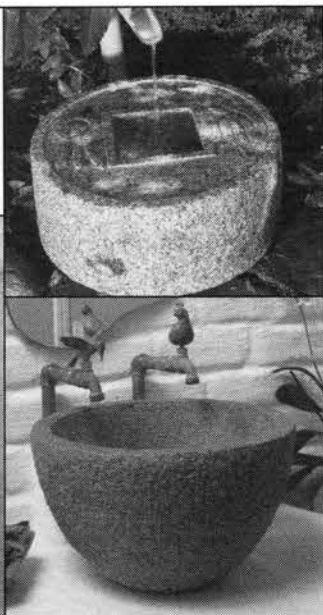
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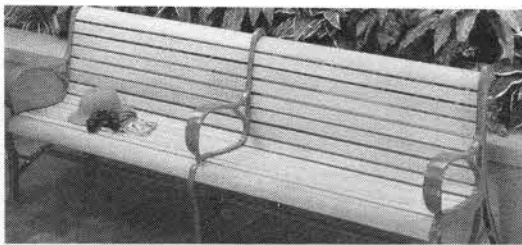
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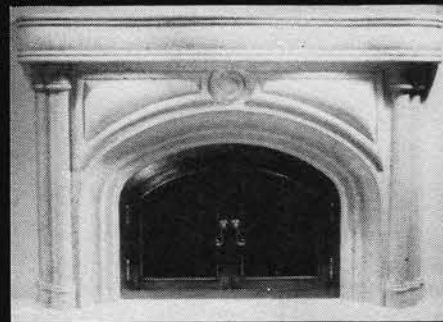
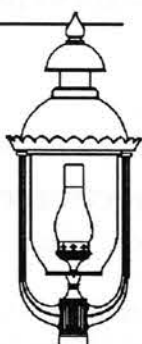
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PROJECT: Sundance West Cinemas, Fort Worth, TX

ARCHITECT: David M. Schwartz, Architectural Services, P.C.

SCOPE: Created a "cityscape" motif in a converted historical building now housing 11 cinema theaters. Railings, trusses, columns, popcorn stand, etc. were fabricated satin brushed aluminum.

(Photo: Hedrich-Blessing)

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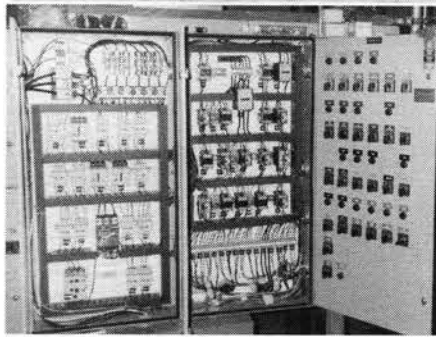
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WRITE IN NO. 603

LANDSCAPE & STREETScape FURNISHINGS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 8-16.



Fountain with inset view of the control box by PACIFIC ENGINEERED PRODUCTS.



Electric flower power by POPOVITCH ASSOCIATES. The petals of this copper stemmed garden light fixture are made of hand-formed ceramic and fired to varying shades of avocado green. Write in No. 381



This street light by BLAKE INDUSTRIES features 4 cluster Victorian fixtures on a Washington pole. Write in No. 216



20 ft. diameter Flower Clock by CANTERBURY DESIGNS with dimensional hands designed to accept plants, and remote-controlled movement. Write in No. 343



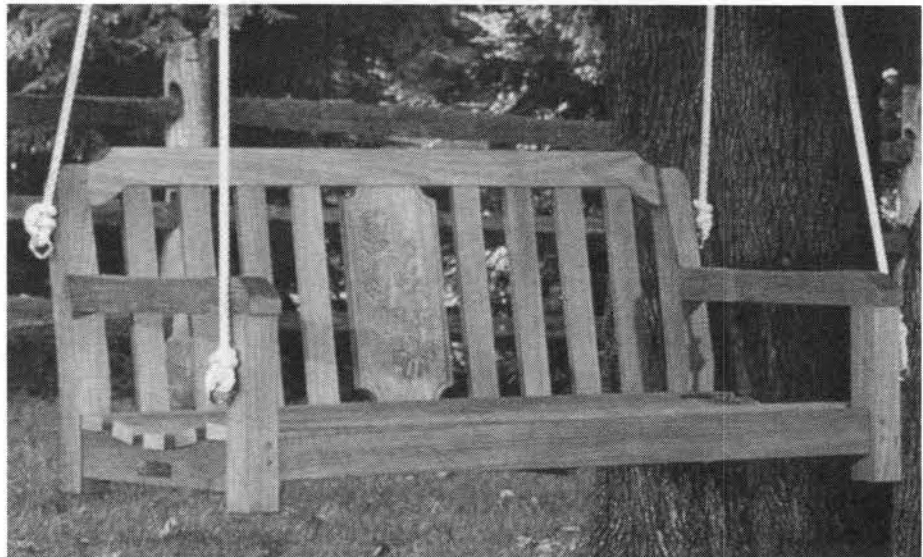
The redwood Garden Serving Buffet is designed by Duncan Reed of REED BROTHERS and features a hand-carved vegetable motif with artichoke finials.



Treated timber bridge by WESTERN WOOD STRUCTURES.



ROBINSON FLAGSTONE designed and fabricated the radial-cut Pennsylvania bluestone for this sitting area/walkway in 1926. This photo, taken in 1988, shows the longevity of the material. Write in No. 979



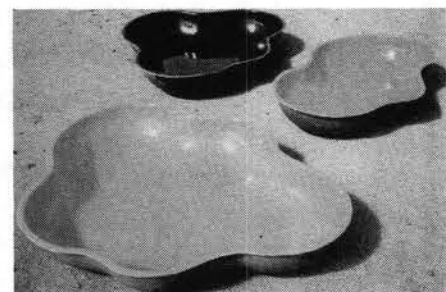
The "Sheraton Swing" by KINGSLEY-BATE, LTD. Write in No. 963



"The Oakley Circular Bench" from GARDEN CONCEPTS.



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LANDSCAPE & STREETScape FURNISHINGS PORTFOLIO

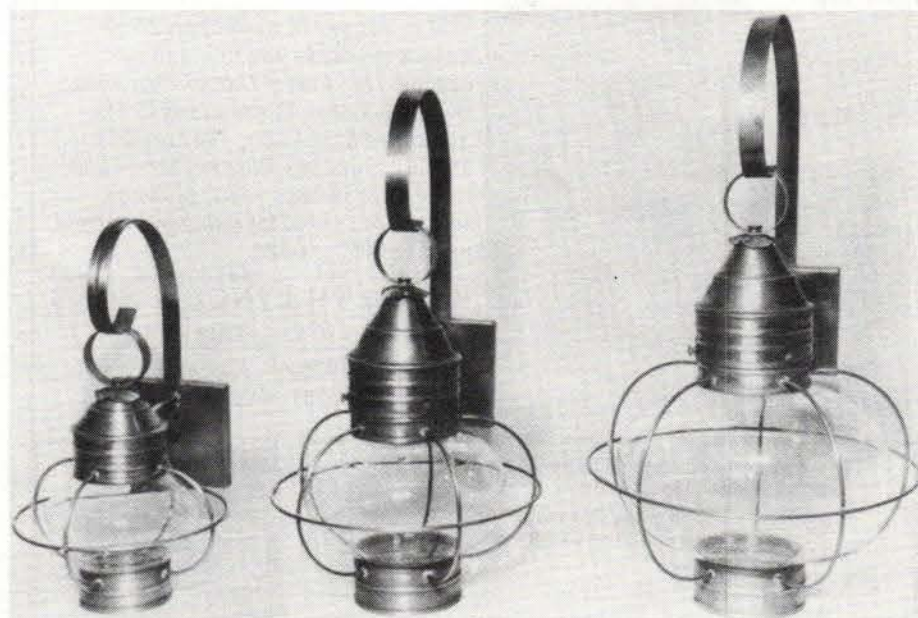
For more information on these companies, consult the SourceList on pp. 8-16.



Cut-stone steps by BUECHEL STONE CORP.



Hand-carved granite Hobbit Lantern by STONE FOREST. Write in No. 414



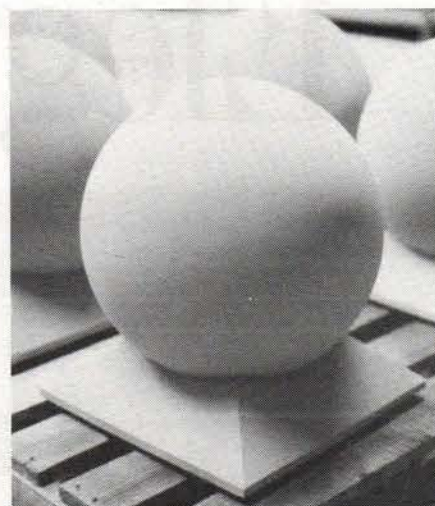
LIGHTING BY HAMMERWORKS offers these handsome Onion Lamps with the convenience of electricity rather than the traditional whale oil. The fixtures are available for wall-mounting, as postlamps, and as hanging lamps. Write in No. 604



HADDONSTONE is renowned for its period architectural and landscape products. This cast-stone fountain pool has an internal diameter of 106-1/2 inches. Write in No. 847



"The Giant Egg Cup" lead planter by Bulbeck Foundry is available from CLASSIC GARDEN ORNAMENTS. Write in No. 333



Cast stone ball finial by ARCHITECTURAL CAST STONE. Write in No. 331



Animated figure with glockenspiel, towerclock, time strike, melodies, and computer-controlled system for site in Vail, Colorado by ELDERHORST BELLS, INC.

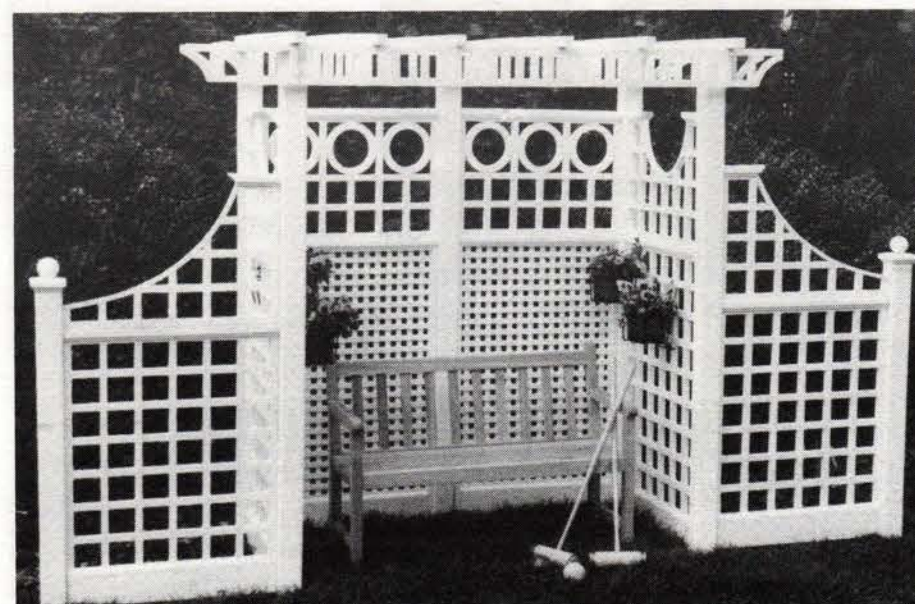


This four-faced streetclock was commissioned for the town of New Kensington's 100th anniversary. The clock was designed and manufactured by the VERDIN COMPANY. Write in No. 435

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Trellis and lattice pergola niche by THE BRATTLE WORKS, INC. Write in No. 184

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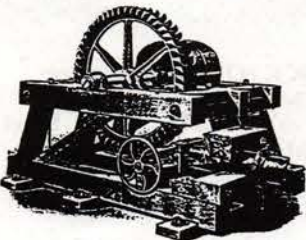


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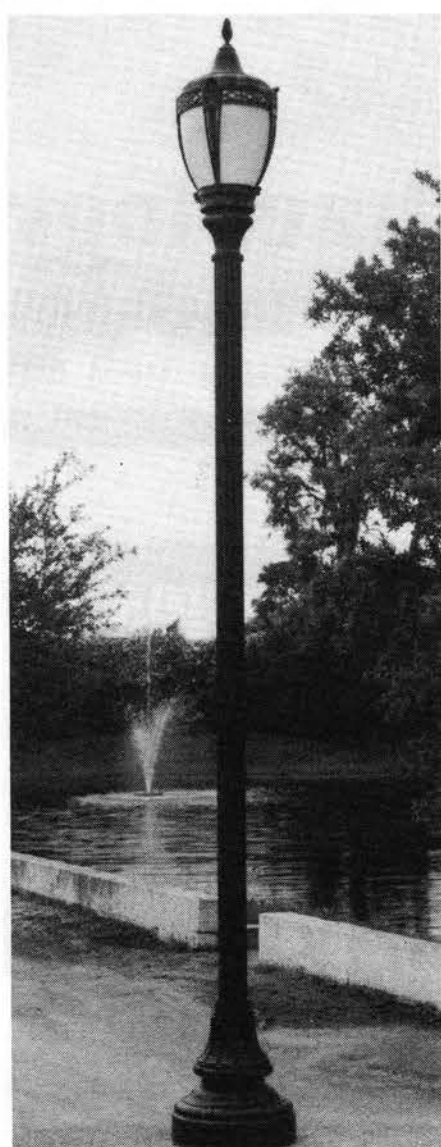
For more information on these companies, consult the SourceList on pp. 8-16.



BARLOW TYRIE offers this Rothesay teakwood bench in 6 ft. (shown here) and 8 ft. Write in No. 954



This family of lead dolphins (each one is piped for use in fountains) was produced by **FLORENTINE CRAFTSMEN**. Write in No. 439



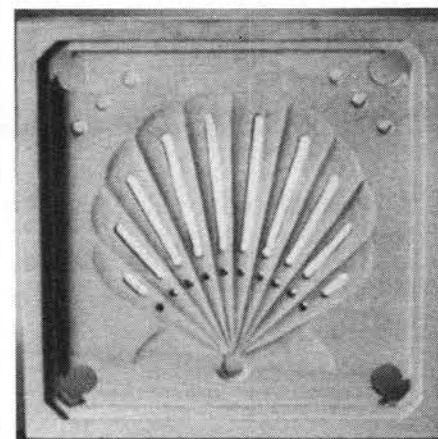
Classic street lamp by **BEACON PRODUCTS**. Write in No. 417



HISTORICAL ARTS & CASTING produced this original 2-1/2-ton, 12-ft.-tall cast bronze fountain for the Governor's Mansion in Annapolis, Md. All of the models for casting had to be created from the artist's designs. Write in No. 121



The "Saratoga", a solid bronze address plaque by **BRONCEX, LTD.**, is available in 3 different sizes: 13 x 10 inches, 11 x 8 inches, and 9 x 9 inches. Write in No. 916



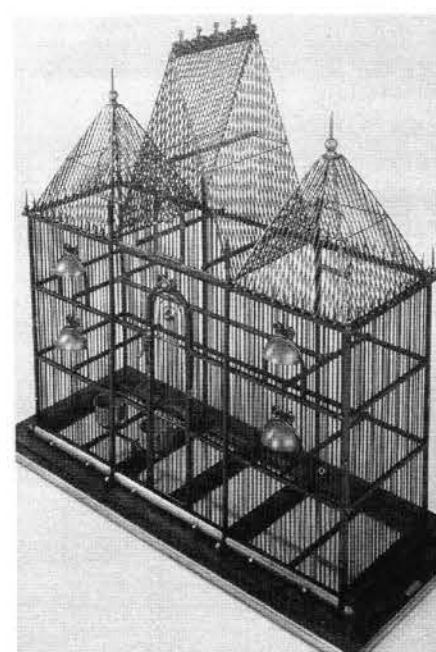
Shell design drain grate cut in Texas cream limestone. Actual size is 18 in. X 18 in. Produced by **PHOENIX CARVED STONE** Write in No. 287



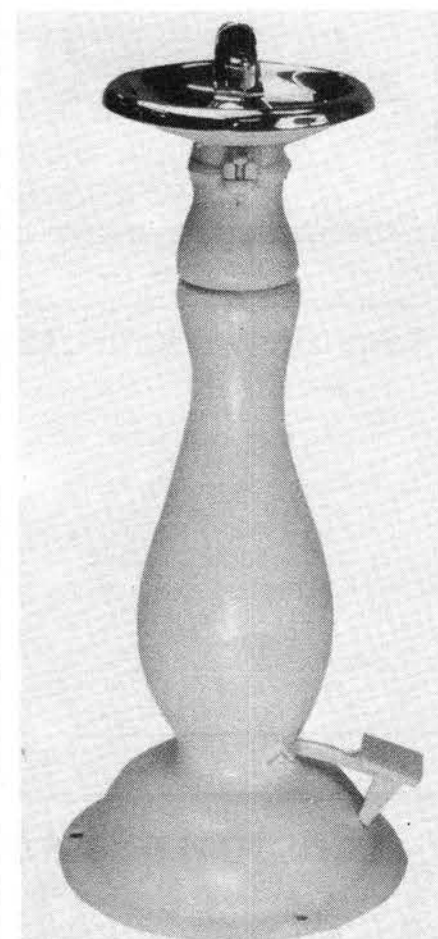
This portable waterfall from **CALIFORNIA ROCKSCAPES** measures 2-1/2 X 3 X 4 ft., and can be used indoors or outside.



Cast iron planter by **O'BRIEN IRON-WORKS**. Write in No. 379



This Collector's Edition Aviary by **WM. BATEMAN RUFFNER & CO.** is hand-crafted from a combination of bronze, brass, copper, hot and cold-rolled steels.



MURDOCK FOUNTAINS offers this Art Deco-inspired drinking fountain called the Lily White. Bowl and bubbler are made of polished brass. Write in No. 378

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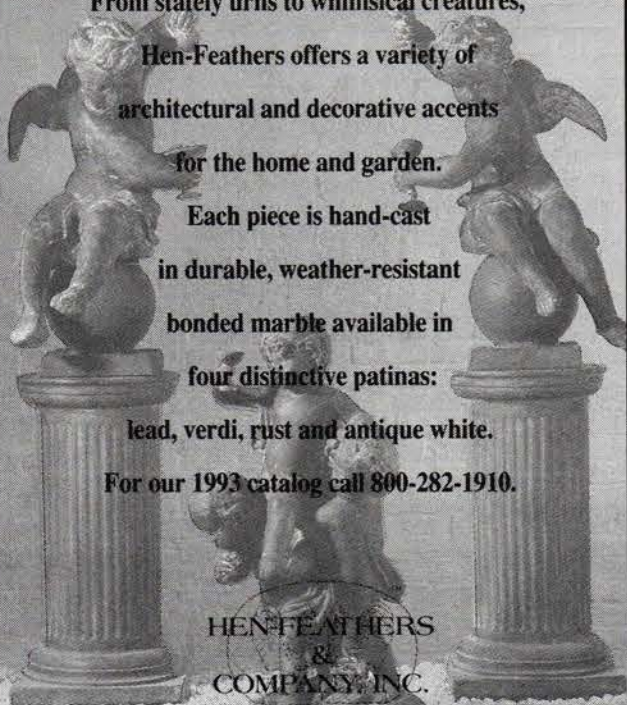
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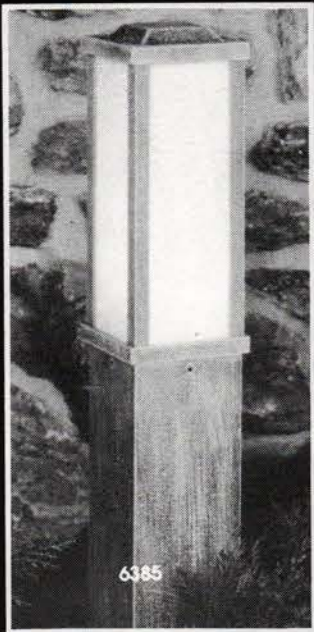
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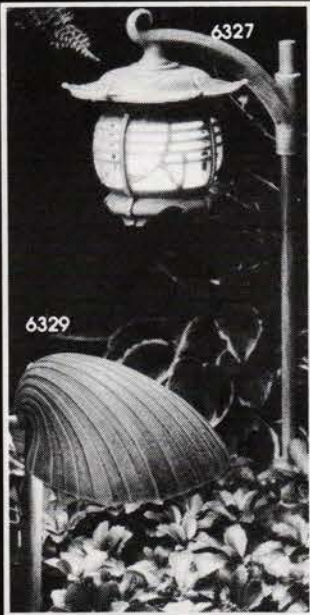
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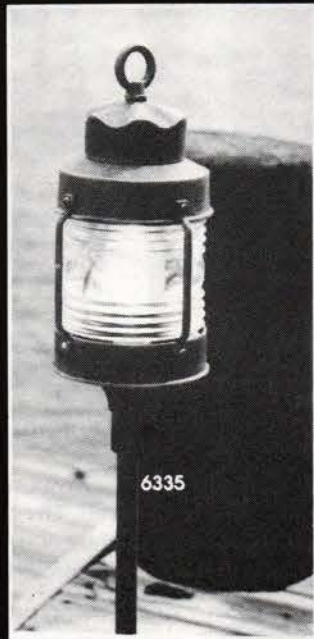
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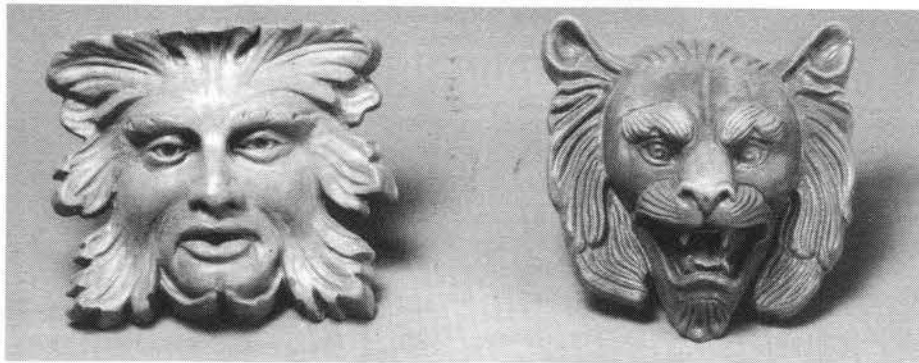


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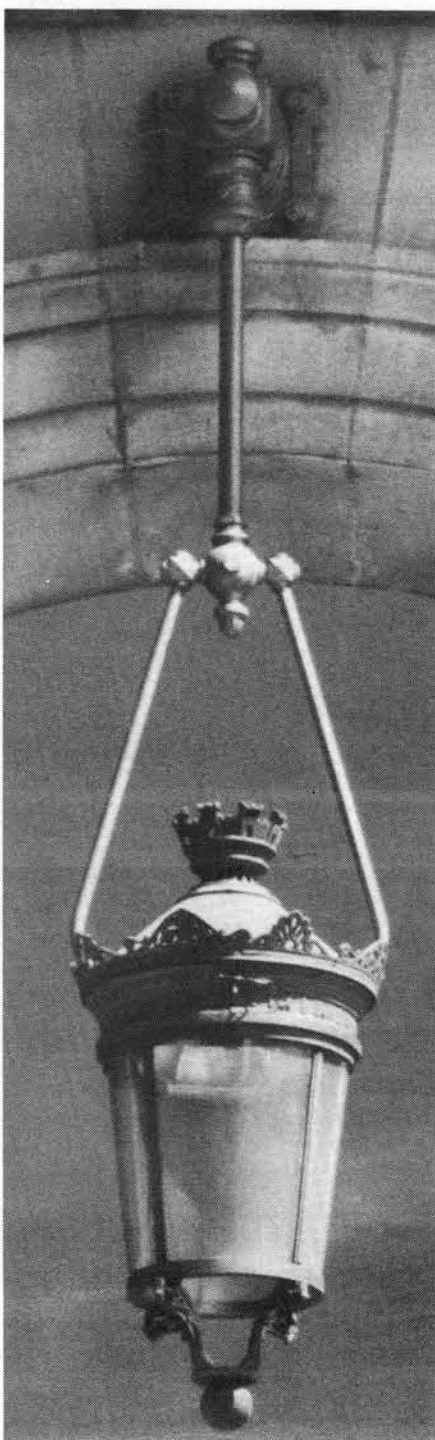
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For more information on these companies, consult the SourceList on pp. 8-16.



Shown above are two fountain spitters by **ALCHEMIE CERAMIC STUDIO**. Write in No. 1



PASHAYAN specializes in 18th-century French lighting fixtures, such as this hanging model. Write in No. 364



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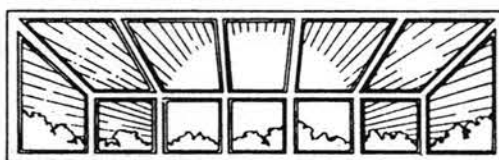
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RESTORATION is organized in cooperation with The Association for Preservation Technology International (APT).

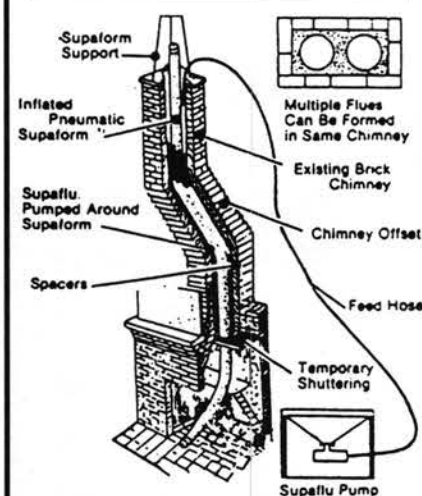


The RESTORATION conference also is being produced in cooperation with The American Institute for Conservation of Historic and Artistic Works (AIC).



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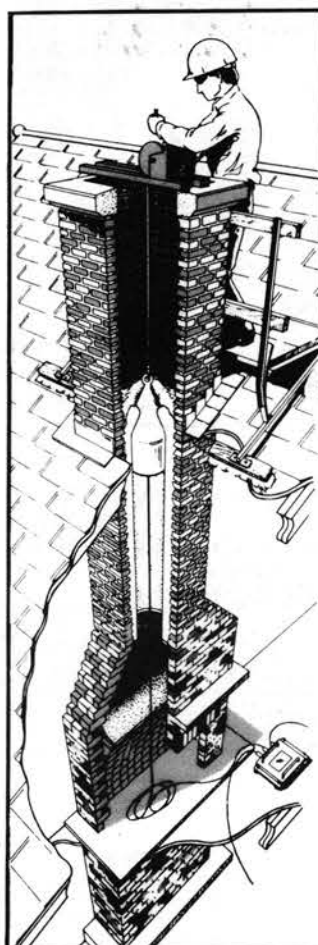
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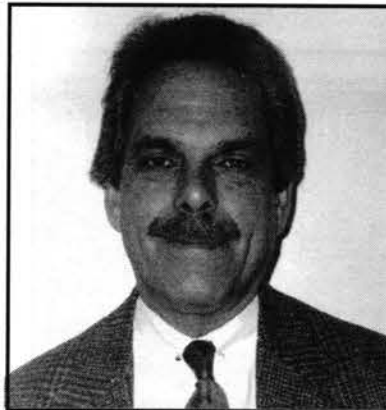
To help familiarize building professionals with this traditional material, the Cast Stone Institute has prepared an excellent video that goes step-by-step into the detailing, mold-making, and manufacture of architectural elements. It also shows recent examples of cast stone used in new construction.

The Cast Stone Institute has a companion Technical Manual that simplifies detailing of anchoring and joining systems, and shows how to lay out elements to minimize manufacturing and installation costs.

The video is available for \$10 and the Technical Manual for \$35. However, the Institute will make the video available on a complimentary basis to professionals who write on their letterhead to: Cast Stone Institute, 1850 Lee Rd., Suite 230, Winter Park, FL 32789. Phone: (407) 740-7721 FAX: (407) 740-6321.

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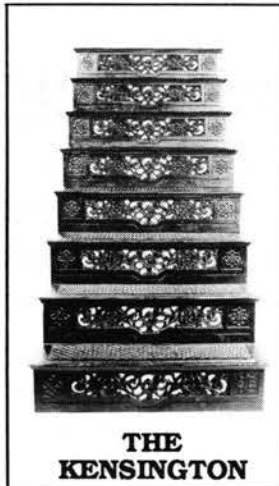
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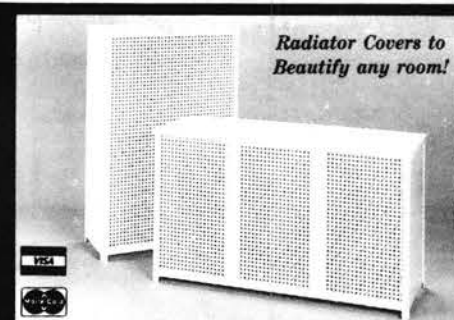
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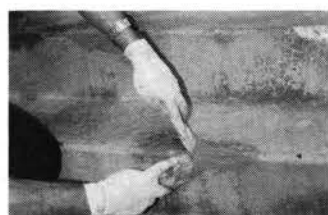


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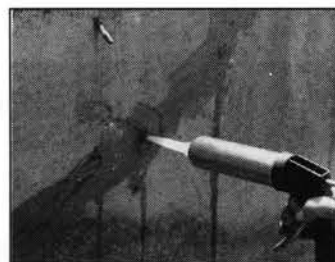
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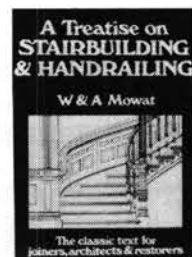


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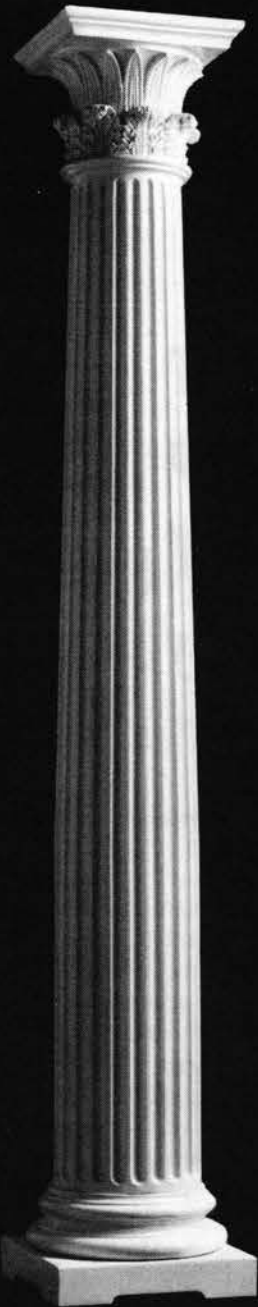
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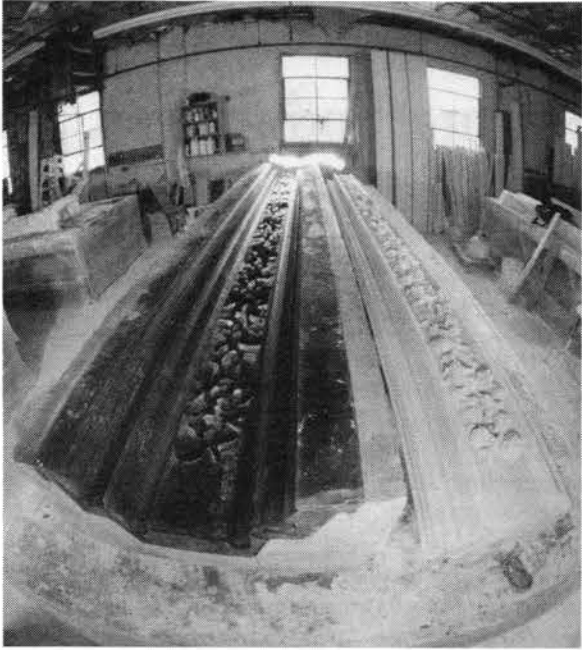
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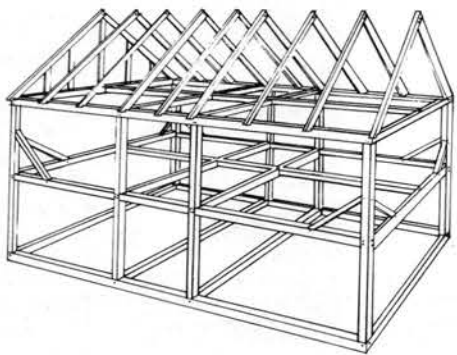


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WRITE IN NO. 671

ARCHITECTURAL
PANELING

special
report

Finding Your Niche in the Paneling Market

Craftspeople approach the construction of paneled interiors with different methodologies. Make sure you match the project — its scope and budget — with the appropriate fabricator.

BY JUDITH SIEGEL LIEF

Agreed: The more carefully specs are determined at the beginning of a project — depth of profiles, joinery detail, wood species, finish — the fewer problems will occur later on.

But how to select one paneling supplier over another? Here are four different craftspeople who each approach paneling fabrication in a slightly different way.

Peter Strasser, president of his Monsey, NY, company of the same name, has spent most of his professional career working on historic restorations. He excels with clients who are educated and know what they want. He has informal guidelines for how one can discern high-quality craftsmanship:

Look at previous work. (1) Gently rub your hand over the finish: Did they sand between layers of finish? (2) Look at the moldings: Do planer marks show? (3) With wainscot, paneling, and windows, check the scale of the room: Do the proportions seem correct? (4) What is the detail in the inside corner; and was it sensitively thought through? (e.g. are there equal width stiles at all corners?) That's where problems will show if the job has not been properly laid out.

Choosing wood. Choices are flat-sawn, rift-sawn, and quarter-sawn. In Strasser's opinion, the best combination of grains and allowance for wood movement is rift-sawn rails and stiles and quarter-sawn panels.

Are you painting or staining? If you're painting, pine or poplar are perfectly adequate. For staining, grainier woods create a richer visual texture.

John McCary, of M.L. Condon Company, Inc., finds that problems arise when clients either aren't sure of what they want; don't have a sense of what the room should look like ultimately; or don't have a good understanding of classical proportions. "The pencil can draw some wonderful things, but if you don't understand wood, you don't know what can actually be made." But, he reassures, "We try to make sure we knock all the bugs out before we get started."

Their niche is an unlimited number of molding profiles. Any drawing or

sample can be duplicated because they grind their own knives. (Sometimes they come across a pattern that can't be made in one piece, however.) Condon's other strength is that they can fabricate in woods "from ash to zebra;" they have found a strong demand for exotics.

Fred Gutnick, president of Executive Woodsmiths, has determined not to use solid-wood panels because the movement can be vast from side to side. "Unless you have perfect climate control, you can't guarantee that panels won't crack or split or that paint jobs won't be ruined." So he uses a veneer-core plywood panel with applied edge molding in a cope-and-stick solid-wood frame. The middle is very stable, and he can use up to a 4 ft. x 8 ft. panel. Because the majority of the work that he does is painted, he uses mostly poplar with birch. For stain grade, he'll use birch, red oak, cherry, or mahogany.

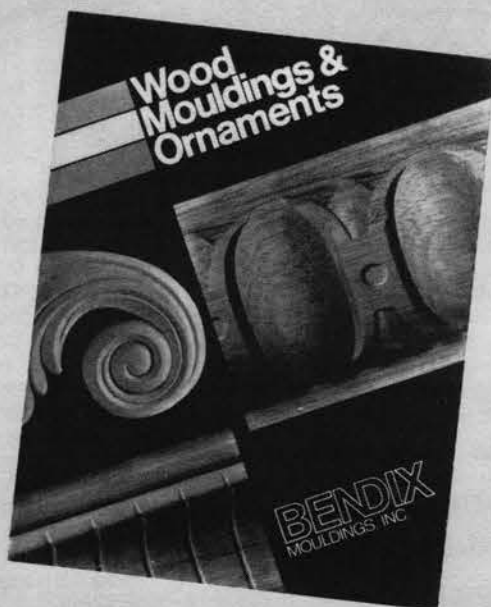
His way of avoiding problems is to have the client provide measurements from a checklist he submits, and then he cuts the panels 1 in. larger for trimming on site since "no building is perfectly plumb."

John Conrad Bernstein, president of his own company, which also bears his name, was trained in architectural history. So when he got into the paneling business, he brought with him authentic tools of the period: 18th- and 19th-c. planes, chisels, and mallets, because he finds it hard to achieve an authentic "period look" with modern machinery. For most of his historic projects (which make up the bulk of his work anyway), he finds hand-tooling perfectly adequate (and surprisingly economical) for turning out yards of paneling. And, because most of his clients are professionals dealing with landmark properties, they know that part of the look of period woodwork is what happens to wood naturally, and they come to John for that. ♦

□ The Editors surveyed 210 manufacturers of architectural paneling and moldings for the following *SourceList* and selected 30 that can both meet the needs of a national market and are most attuned to traditionally styled wood interiors.

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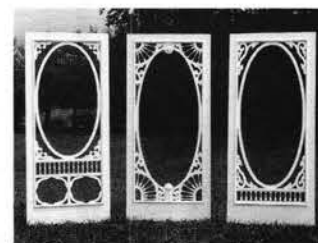
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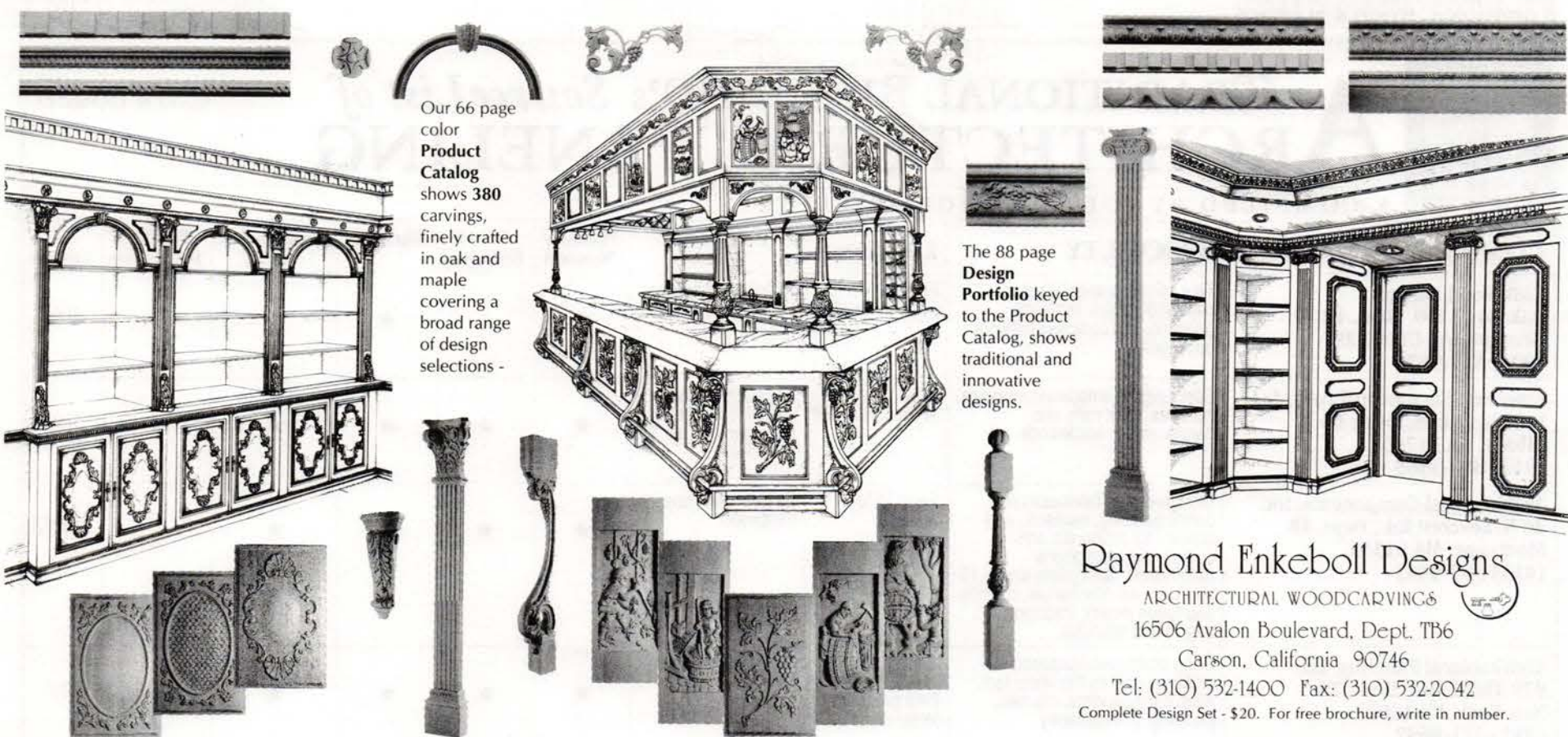
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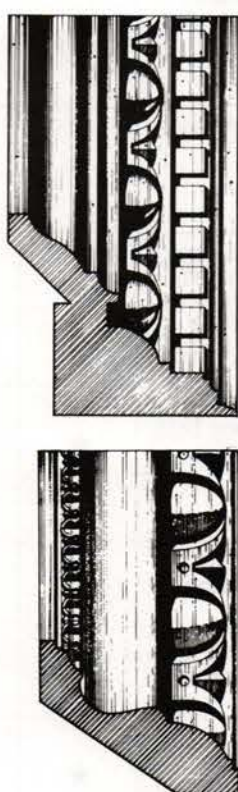
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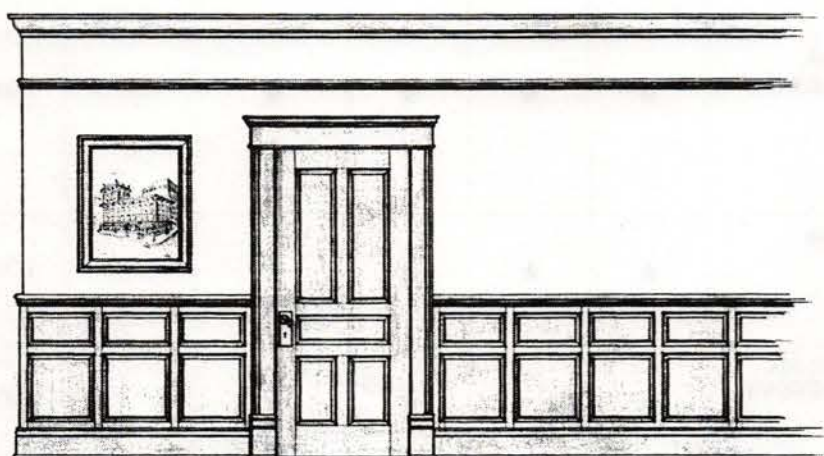
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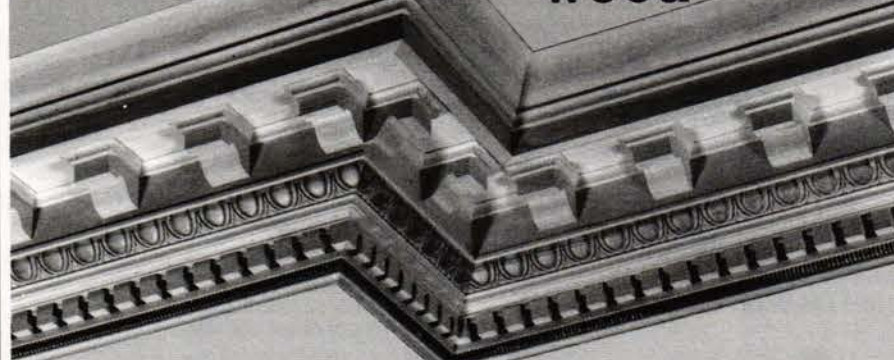


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TRADITIONAL BUILDING's *SourceList of* ARCHITECTURAL PANELING

CSI# 06420

★ COMPILED BY JUDITH SIEGEL LIEF

COMPANY	SPECIALTY	Literature	Primary Woods	Paneling/Wainscot	Carved/Embossed	Moldings	Door/Window Casing	Paneling Installation	% Custom
A&B Wood Design P.O. Box 1199, Dept. TB Georgetown, CT 06829 (203) 544-9871	This company specializes in casework, doors, moldings, paneling, and complete millwork packages.	Free <i>Write in No. 222</i>	All hardwoods, pine	★		★	★		50%
American Custom Millwork, Inc. P.O. Box 3608, Dept. TB Albany, GA 31706 (912) 888-3303	Specialists in embossed moldings, cornices, chair rails, and baseboards in hardwoods.	Free <i>Write in No. 678</i>	Appalachian poplar, walnut, oak, cherry, mahogany, or as specified.	★	★	★	★	★	50%
Architectural Components, Inc. 26 N. Leverett Rd., Dept. TB Montague, MA 01351 (413) 367-9441	Designers and fabricators of period paneling, wainscot, and built-ins for residential and commercial restorations/renovations. Specialists also in 18- and 19-c. window frames; mortise-and-tenon joinery; traditional details and materials.	Send \$5 for catalog	Eastern pine, any hardwood	★	★	★	★		100%
Architectural Paneling, Inc. 979 Third Ave., Dept. TB New York, NY 10022 (212) 371-9632	Deep sculptured hardwood moldings sold by the linear foot. Also, hand carvings, mantels, paneling, and cabinetry.	Send \$10 for video Free brochure <i>Write in No. 341</i>	Hardwood poplar, maple, walnut, cherry, oak	★	★	★	★	★	50%
Bendix Moldings, Inc. 37 Ramland Rd. So., Dept. TB Orangeburg, NY 10962 (800) 526-0240 (914) 365-1111	Carved and embossed hardwood moldings in random lengths from 3-15 ft. Styles include beaded, rope, dentil, scalloped, bamboo, and more.	Free <i>Write in No. 578</i>	European beech, ramin, obeche, pine, poplar	★	★	★	★		25%
John Conrad Bernstein, Inc. 5900 Green Spring Ave., Dept. TB Baltimore, MD 21209 (410) 764-1531	Historic (18th- & 19th-c.) restoration woodwork done using traditional tools of the period.	Free <i>Write in No. 800</i>	Pine, all hardwoods	★	★	★	★	★	90%
Boise Molding & Lumber Co. 116 E. 44th St., Dept. TB Boise, ID 83714 (800) 627-6066 (208) 322-6066	Full-line architectural woodworking manufacturer of hard- and soft-wood moldings in any profile/any wood; siding and tongue-and-groove paneling; also flooring, and custom work.	Free <i>Write in No. 317</i>	Fir, hemlock, cedar, redwood, western spruce, Idaho white pine, ponderosa pine, sugar pine	★		★	★		
Cavetown Planing Mill Co. P.O. Box 51, Dept. TB Cavetown, MD 21720 (301) 733-7940	100-yr.-old custom millwork shop specializing in molding, windows, doors, paneling, flooring, mantels, furniture, trim, and more. Historic restoration and new work; design service.	Free <i>Write in No. 504</i>	Red oak, mahogany, walnut, cherry, birch, white pine, more	★		★	★	★	100%
Center Lumber Co. P.O. Box 2242, Dept. TB Paterson, NJ 07509 (201) 742-8300	This company houses over 1,400 molding knives, with 52 expressly for paneling. Custom grinding to match existing profiles; also custom curved paneling and molding.	Free <i>Write in No. 680</i>	Ash, basswood, cherry, Honduran & Philippine mahogany, hard & soft maple, red & white oak, teak, walnut	★		★	★		100%
Chesapeake Hardwood Products, Inc. 201 Dexter St. W., Dept. TB Chesapeake, VA 23324 (800) 446-8162	This company manufactures plywood wall paneling, hardwood paneling, hardwood plywood, pre-cut wainscot panels, solid-wood plank paneling with baseboard and chair rail.	Free <i>Write in No. 368</i>	Indonesian mahogany, oak, birch, hickory, pine, cherry, walnut, lauan	★		★			
M.L. Condon Co., Inc. 256 Ferris Ave., Dept. TB White Plains, NY 10603 (914) 946-4111	Large inventory of stock and custom moldings in a wide range of wood species; custom moldings in any wood to match any profile. Also doors, window casings, wainscot, stair rails, dentils, interior and exterior millwork, custom turnings.	Send \$2 for catalog	All hardwoods incl. red/white oak, mahogany, walnut, cedar, cypress, fir, pine, ash, cherry, chestnut, rosewood, redwood, more	★		★	★		
Craftsman Lumber Company, Inc. P.O. Box 222, Dept. TB Groton, MA 01450 (508) 448-6336	Wide pine and oak vertical and horizontal paneling and wainscot to 24 in. W.; feather-edged, beaded, and molded to custom specs. Also Victorian beaded or v-groove paneling and wainscot.	Free <i>Write in No. 432</i>	Pine, oak, cherry, maple	★			★		100%
Cumberland Woodcraft Co., Inc. P.O. Drawer 609, Dept. TB Carlisle, PA 17013 (717) 243-0063	Complete line of solid-wood paneling including panels w/ grilles and fret partitions; wall/ceiling paneling; oak moldings and bar rails; cornice moldings; baseboards/chair rails.	Free <i>Write in No. 131</i>	Red oak, maple, mahogany, walnut, cherry, poplar, others	★	★	★	★		50%
Driwood Moulding Co., Inc. P.O. Box 1729, Dept. TB Florence, SC 29503 (803) 669-2478	Manufacturers of sectional wall panels and embossed hardwood moldings, which can be configured to create cornices, chair rails, ceiling panels, mantels, and more. Variety of species also available.	Free	Poplar, oak, mahogany, walnut	★	★	★	★		100%
Raymond Enkeboll Designs 16506 Avalon Blvd., Dept TB Carson, CA 90746 (310) 532-1400	High-end machine-carved oak and maple architectural ornamentation and interiors; corbels, balusters, moldings, casings, raised panels, and more.	Send \$20 for color catalog Free brochure <i>Write in No. 577</i>	Oak, maple	★	★	★	★		0%
Executive Woodsmiths, Inc. 215 Foster Ave., Dept. TB Charlotte, NC 28203 (704) 527-9090	Custom manufacturers of moldings, mantels, entry pediments, raised paneling in custom configurations including curved.	Free <i>Write in No. 932</i>	Poplar, red oak, cherry, mahogany, redwood	★		★	★		100%
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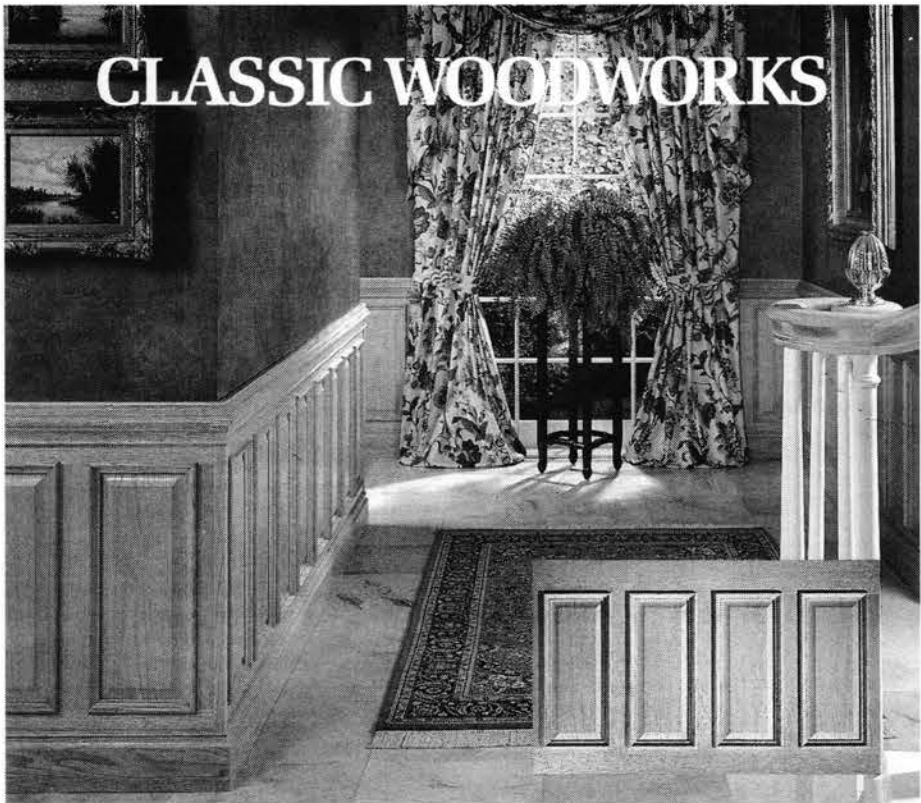
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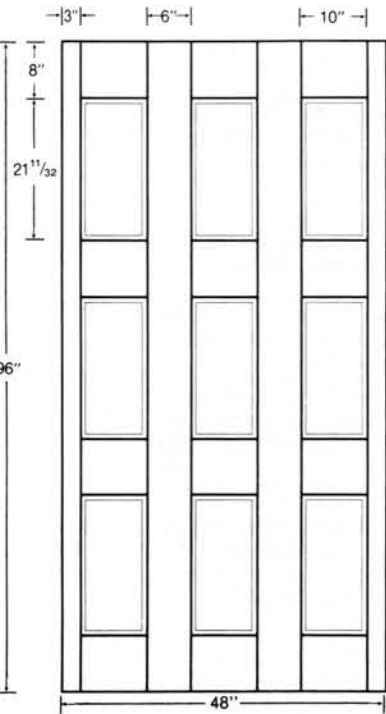
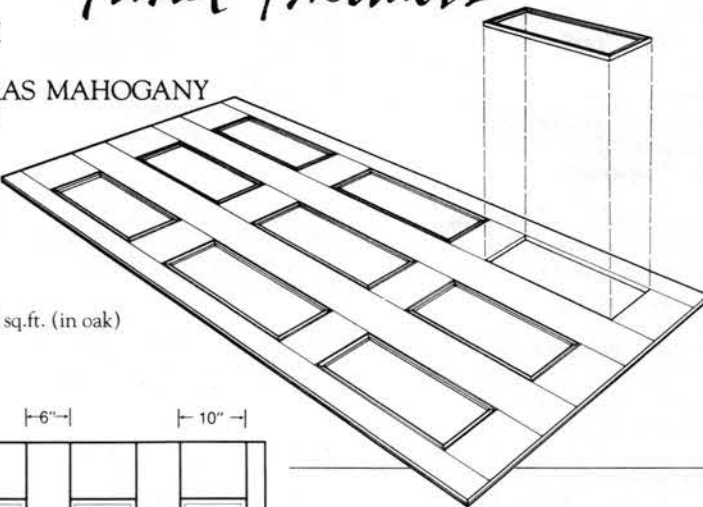
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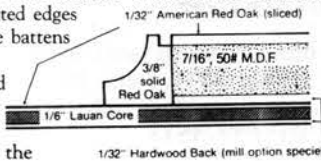


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TRADITIONAL BUILDING's *SourceList of* ARCHITECTURAL PANELING

CSI# 06420

★ COMPILED BY JUDITH SIEGEL LIEF

COMPANY	SPECIALTY	Literature	Primary Woods	Paneling/Wainscot	Carved/Embossed	Moldings	Door/Window Casing	Paneling Installation	% Custom
Hallidays America, Inc. P.O. Box 731, Dept. TB Sparta, NJ 07871 (201) 729-8876	Importers of English Georgian- and Regency-style paneling and mantels. Measuring, design and installation.	Free	Baltic pine, cherry, English/American oak, mahogany, as specified	★	★	★	★	★	100%
ILEX Woodworking 1202 Maryland Ave., Dept. TB Baltimore, MD 21201 (410) 243-6796	Specialty millwork shop focuses on cabinetry, paneling, trim, and moldings. The shop is equipped with a 4-head molder with over 500 profiles.	Free	Mahogany, cherry, chestnut, English pine, oak, walnut	★	★	★	★	★	100%
The James Wood Company P.O. Box 3547, Dept. TB Williamsport, PA 17701 (800) 326-9734 (717) 326-3662	Manufacturers of a full line of interior hardwood moldings — and pre-coped paneling — for residential and commercial projects using style-and-rail joinery.	Free	Maple, red oak, poplar, cherry, mahogany	★		★	★	★	40%
C. Larkin Co. 210 Carter Dr., Dept. TB West Chester, PA 19382 (215) 696-9096	This company specializes in deep-profile moldings and deep-profile raised-panel wainscot designs. Construction is book-matched, mitered-rim panel.	Send \$6 for catalog Free brochure	Poplar, cherry, oak, walnut, mahogany, clear white pine	★		★	★	★	30%
Leslie Bros. Lumber Co. P.O. Box 609, Dept. TB Cowen, WV 26206 (304) 226-3844	V-grooved, end-matched paneling in random widths/random lengths. This mill can produce 6,000 sq.ft./day.	Send \$10 for samples Free brochure Write in No. 367	Northern/Appalachian red oak, white oak, maple, ash, black walnut, black cherry, hickory, poplar, basswood	★					10%
Maple Grove Restoration P.O. Box 9194, Dept. TB Bolton, CT 06043 (203) 742-5432	This millwork company focuses on Colonial and Victorian wainscot, raised/recessed paneling, and interior raised-panel shutters. Also baseboards, chair rails, crowns, and dentils. Measuring, design and installation service available.	Send \$2 for catalog Write in No. 563	All hardwoods and softwoods	★				★	100%
N.J. Hardwoods, Inc. 1340 W. Front St., Dept. TB Plainfield, NJ 07063 (908) 754-0990	Stock profiles in poplar and red oak; unlimited range of custom moldings; paneling and cabinetry in all woods.	Send \$6 for catalog	Poplar, red oak, all custom woods	★	★	★	★	★	100%
Noble House Fine Wood Interiors P.O. Box 715, Dept. TB Chester, NY 10918 (914) 469-7018	Wood paneling, moldings, furniture, veneers, and curved work.	Free Write in No. 370	As specified	★		★		★	100%
North Fields Restorations Box 741, Dept. TB Rowley, MA 01969 (508) 948-2722	Large supplier of antique flooring in southern yellow pine; also, hand-hewn beams, mantels, doors, and barn siding.	Free Write in No. 326	Southern yellow pine	★					
Old World Arch. Paneling 115 Allen Blvd., Dept. TB Farmingdale, NY 11735 (516) 755-0211	Experienced firm in architectural paneling and moldings: radius, arch, bar rails, furniture; full carving capability.	Free	All hardwoods, pine, poplar	★	★	★	★	★	100%
Pine Plains Woodworking, Inc. RR1 Box 74C, Dept. TB Pine Plains, NY 12567 (515) 398-7665	Large stock of raw material that can be milled into wide-plank flooring, moldings, dimension lumber, tongue-and-groove paneling; other custom products.	Free	Oak, poplar, ash, cherry, maple, and eastern white, clear, knotty, and yellow pine	★		★	★		10%
Santarsiero & Co. 46 Fairfield St., Dept. TB Montclair, NJ 07042 (201) 744-0088	This custom shop specializes in fabrication of panelwork, moldings, casework; design service.	Free Write in No. 366	All hardwoods and softwoods	★	★	★	★	★	100%
Sheoga Hardwood Flooring P.O. Box 510, Dept. TB Burton, OH 44021 (216) 834-1710	End-matched, pre-sanded, random width and length wood for paneling, flooring, ceilings; 8 domestic woods.	Free Write in No. 166	Ash, white and red oak, poplar, white pine, cherry, walnut, hard maple						
Southern Architectural Woodwork 7402 Fairfield Rd., Dept. TB Columbia, SC 29203 (803) 754-4619	This shop specializes in high-end wood interiors; custom jobs in any domestic or exotic wood; custom matching of fine veneers.	Free	As specified	★		★	★	★	100%
States Industries, Inc. P.O. Box 7037, Dept. TB Eugene, OR 97401 (800) 626-1981	This company has a standardized panel format with stile-and-rail joinery and domestic veneers. Also matching crown and base moldings, and wainscot; unfinished.	Free Write in No. 296	All hardwoods	★		★			
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Traditional Line, Ltd. 143 W. 21st St., Dept. TB New York, NY 10011 (212) 627-3555	Specialists in the restoration and reproduction of all types of wood interiors; small and large projects. The full range of services includes paint removal and refinishing.	Free	All hardwoods and softwoods	★	★	★	★	★	100%
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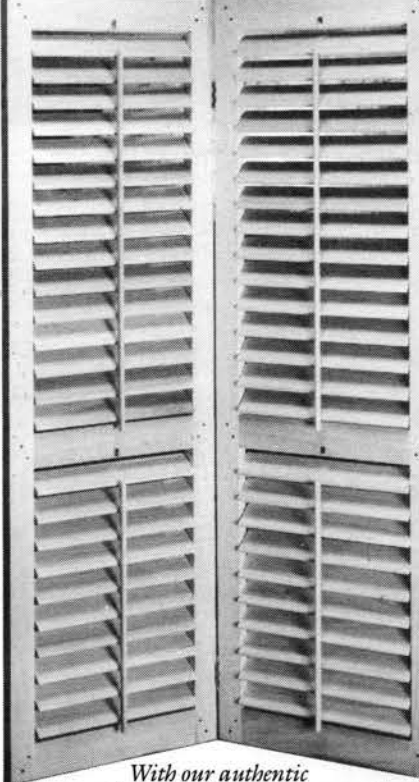


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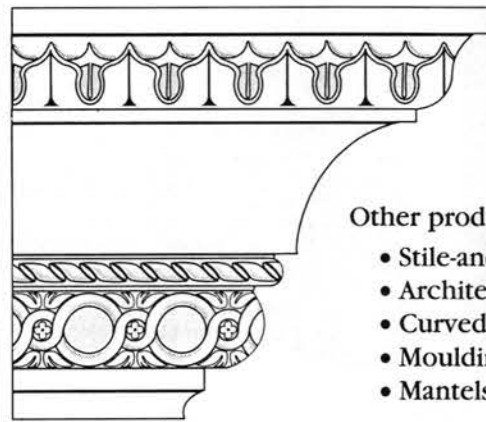
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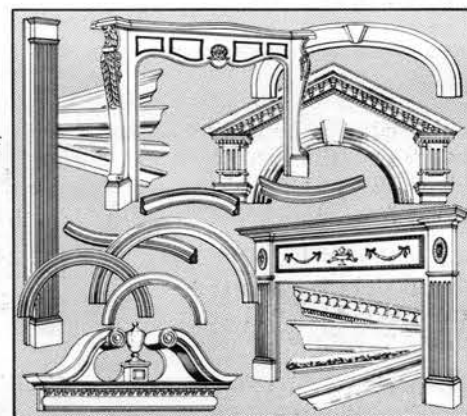
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WRITE IN NO. 365

Instant Access to Product Literature for Paneling & Mouldings

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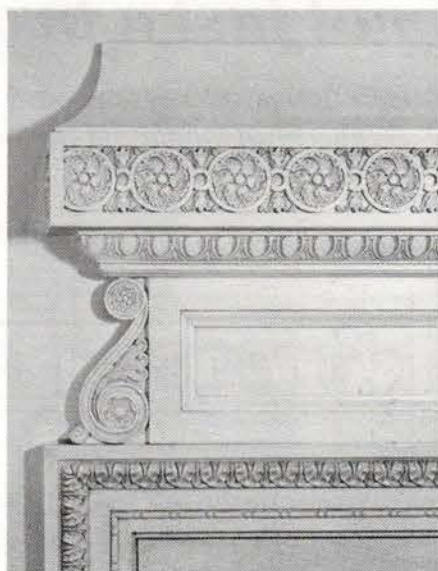
- Aged Woods • Architectural Components • Center Lumber Co.
- Craftsman Lumber Co. • Cumberland Woodcraft
- Driwood Ornamental Mouldings • Enkeboll Designs
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- States Industries • White River Hardwoods • Wiener Woodcarvers

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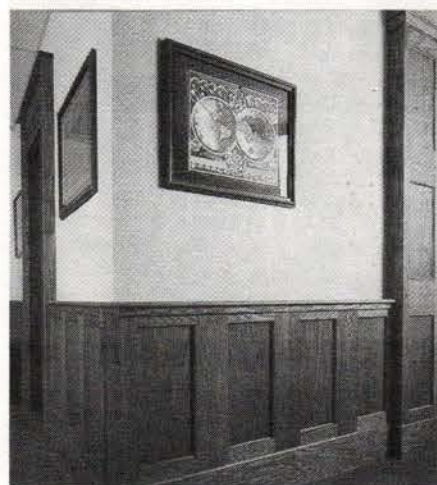
For more information on these companies, consult the SourceList on pp. 32-34.



MAPLE GROVE RESTORATION's architectural millwork includes hardwood shutters, raised-panel walls, and moldings. Write in No. 563



Wood and composition moldings with color glaze from DRIWOOD MOLDING.



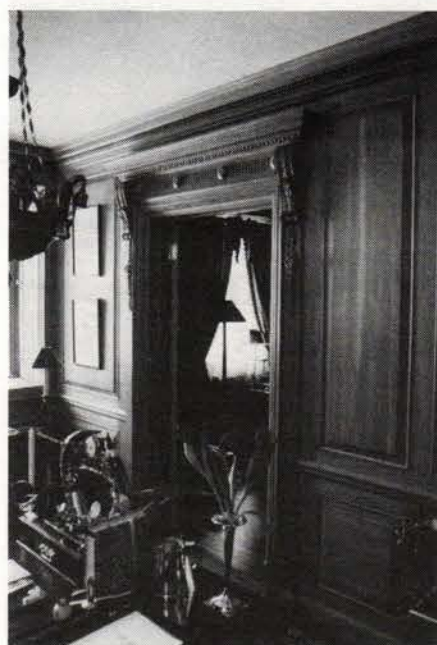
Hardwood library panel, applied as wainscot, uses stile-and-rail joinery. STATES INDUSTRIES Write in No. 296



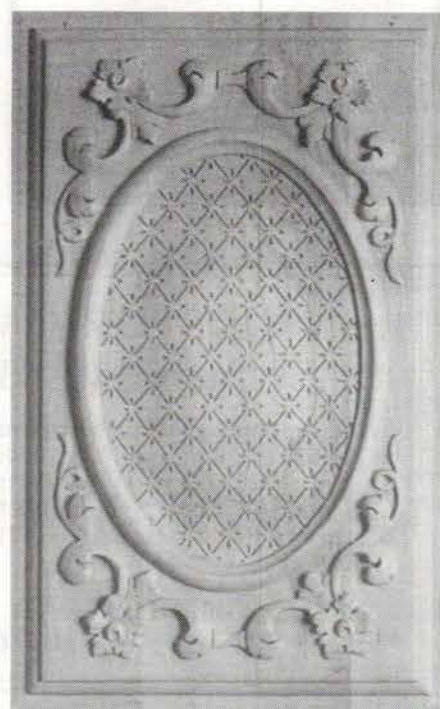
C. LARKIN CO. stocks this wainscot top panel (WC-30A) in cherry with custom crown molding (OG-3 and LCR-2).



This bottom half of a hutch is really a radiator cover; solid cherry and tin lined. Recycled radiator grilles are both functional and decorative. PETER STRASSER & ASSOCIATES Write in No. 365



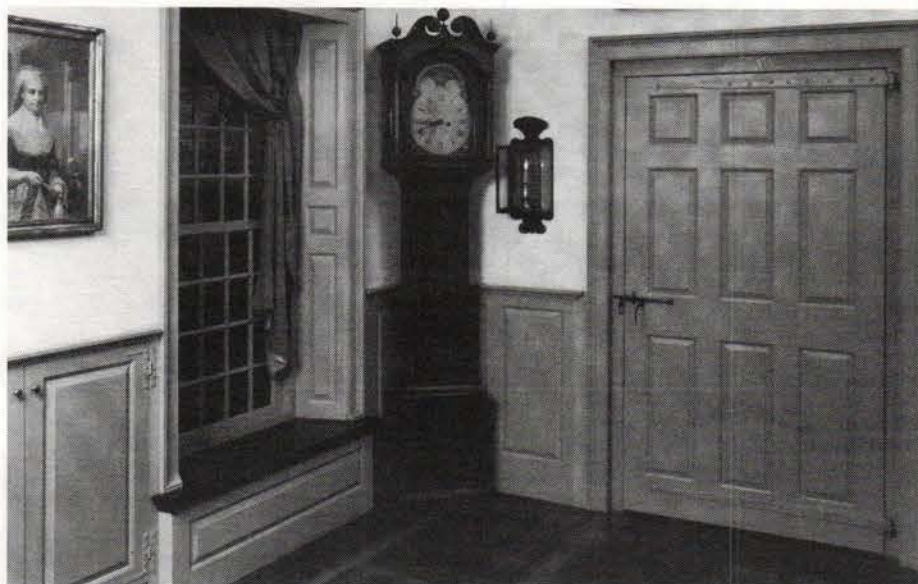
Imported hand-carved moldings and hand-planed wall panels in Baltic pine. HALLIDAYS AMERICA, INC.



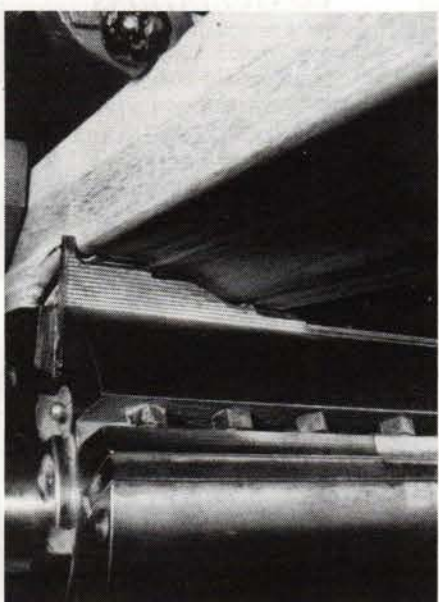
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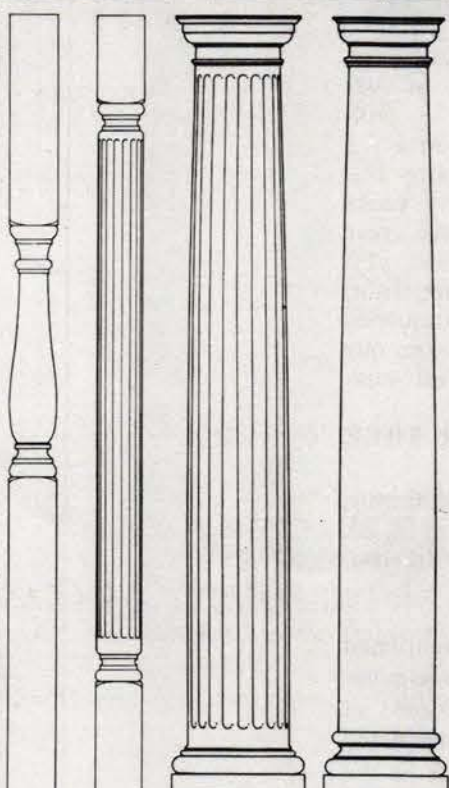
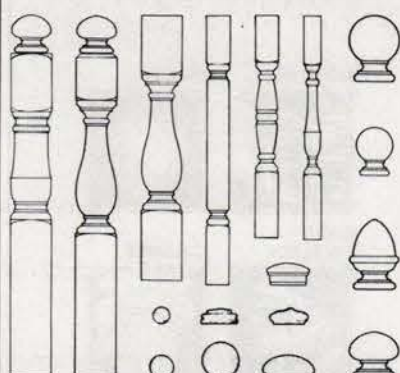
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PAG 3

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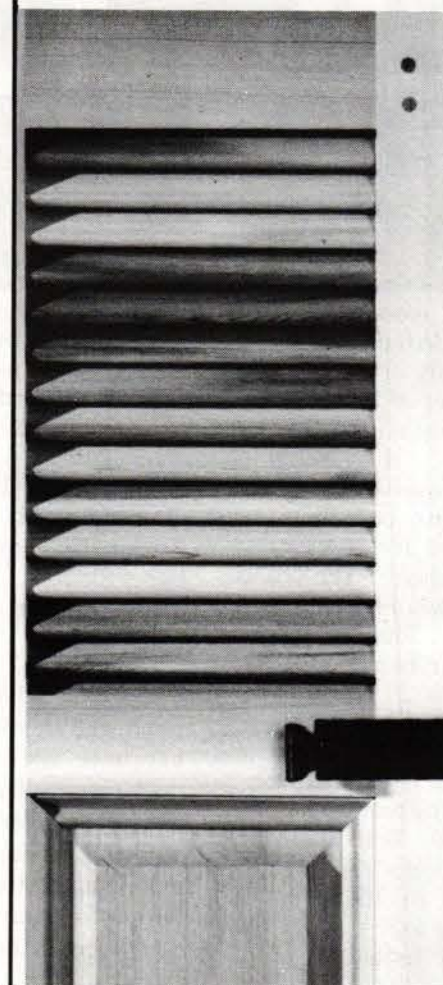
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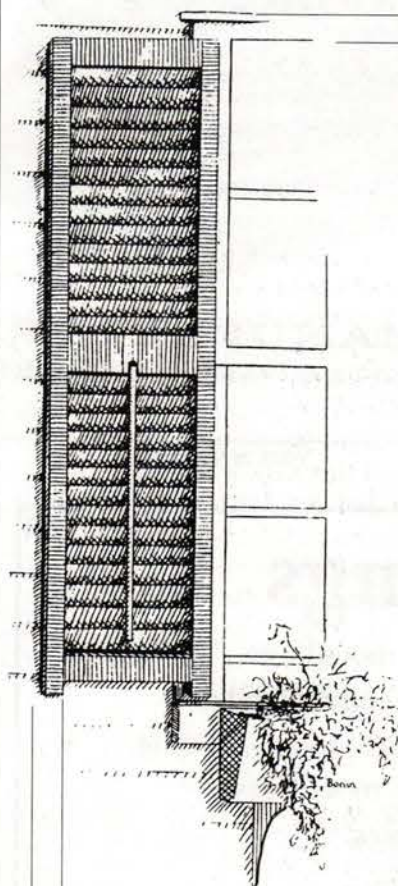
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Asphalt shingles are cheap. But they can't compete with traditional slate, tile, metal, and wood roofs for texture, visual richness, and emotional appeal.

BY CLEM LABINE

The roofing industry has recently shown growing appreciation of traditional materials. For example, 15 years ago, it was almost impossible to find a contractor who could repair slate and tile roofs — or replace in kind. The situation is much better today, as the following pages will demonstrate.

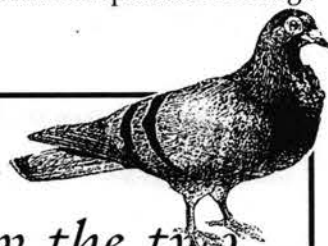
But the ill-informed contractor is still out there. An acquaintance in the roofing tile business relates this recent case history: "I was called in to look at a 1920's tile roof on an expensive suburban estate. The roof was in basically good condition. Some tiles needed replacing, but it would have only taken about \$10,000 and tender loving care to put it back in shape. The next time I saw the job, a roofing contractor had been brought in and declared the roof unsalvageable. He tore off and discarded ALL the original tiles. Now the owner is facing a re-roofing bill of at least \$200,000 to put back something that won't look as good as what he had two months ago."

Good quality slate and tile should last at least 75 to 100 years. (Ludowici-Celadon, Inc., for example, has just increased the warranty on its clay roof tile products from 50 to 75 years. See p. 50) So when somebody says of a slate or tile roof, "That roof can't be saved," best get a second opinion — and a third and a fourth.

If total replacement is called for, or if you want a traditional look on a new building, just about any historic roof material or pattern can be reproduced today — if the budget permits. On the following pages are a cross-section of suppliers of traditional roofing materials and specialty contractors who are experienced with historic roofs.

PREVAILING OVER PERSISTENT PIGEONS

While compiling our *SourceList* of roofing specialties, it became clear there was a good deal of confusion among building professionals about the fine points of bird control. To help provide some greater understanding of this complex area, we talked to some of the major players in bird control and report our findings below. ♦



THE HIGH ART OF BIRDPROOFING

Know your birds, know your products — and know how the two will interact with your building.

An architect called our offices recently looking for a recommendation on a birdproofing product he could paint on a church exterior to repel pigeons. "I know all about that wire stuff," he said, "but I need something that is inexpensive and easy to apply."

We had to tell him that, in our opinion, he was on the wrong track. On historic buildings with a lot of architectural ornament, birdproofing is an art requiring considerable expertise. It's not just a matter of specifying a product and then letting a roofer or the maintenance superintendent take it from there. The skill lies in knowing *which* building elements need protection, *which* pests will be encountered, and *which* product will offer the most protection with the least visual intrusion. Often, successful birdproofing of a large historic building will involve the use of two or more different products.

Further, we told our caller, the chemical "hot foot" bird repellents he was seeking — even if not prohibited by local animal protection regulations — are of limited value in our estimation. The effectiveness of the chemical diminishes within a year, and paint-on repellants have been known to stain masonry buildings. In our opinion, we told our caller, chemical repellents should not be considered for any building with historic value. As for sonic devices, we have yet to hear of a successful long-term installation on a major building.

Among the successful birdproofing systems are those using stainless steel needles and wires. The best known of the stainless steel systems is Nixalite, which has a long track record and is now available in 5 models. Among the other proven products in the U.S. market are the Depigeonal, Birdwire, and Springuard systems from Europe.

In addition to the stainless steel systems, birdproofing professionals will also use netting in certain areas, as well as proprietary pin-and-wire systems that they adapt to the particular situation. The Scare-Eye (an inflatable vinyl sphere with huge silver mylar eyes and a tail) can also be used with good effect in special situations for limited durations.

But there are some cases where there is no satisfactory birdproofing method. John Pace, General Manager of Bird Master Bird Control Systems, Woburn, Mass., recalls the time his company was working on the Lincoln Memorial. "We had successfully installed inconspicuous birdproofing on the structure itself. But then we were asked what we could do to keep pigeons from perching on Lincoln's statue. We replied that there was no birdproofing method that wouldn't detract from the figure. The only satisfactory system for the statue itself was regular cleaning."

Jack Wagner, President of Birdbusters, Washington, D.C., is a former roofing contractor who has installed a lot of birdproofing over the past 30 years. During the course of numerous birdproofing projects, Jack became impressed with the Depigeonal and Birdwire systems . . . so much so that he is now a full-time distributor of these two products.

Wagner is especially enthusiastic about the Birdwire system. The system consists basically of stainless steel pins spaced about 5 ft. apart, with a nylon-covered stainless steel wire stretched between the pins. The height of the pins and spacing between rows of wire varies with the bird pest being controlled. Among the advantages claimed for the pin-and-wire system are: (1) Minimal debris collection; (2) Low visual intrusion; (3) Low installed cost.

Pin-and-wire systems won't control all sizes of birds simultaneously, however, and are said to require more expertise to install successfully than the needle-type systems.

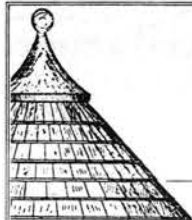
John Gellerstedt of Nixalite of America, Moline, Ill., points to the long track record of the Nixalite stainless steel needle system in deterring a wide size-range of birds and other pests. Having seen many successful birdproofing installations over the years, along with failures, Gellerstedt stresses the importance of installing birdproofing products in strict accordance with manufacturer's directions. "Birds are amazingly persistent," he emphasizes. "If they can get a toehold in any small unprotected area, they will start accumulating nesting material and will soon cover over any birdproofing system."

Since stainless steel is a relatively expensive material, there is a natural tendency on the installer's part to use as little product as possible. "The #1 installation problem I've seen," declares Gellerstedt, "is the installer trying to protect too big an area with too little material."

John Pace of Bird Master agrees on the importance of the installer. "Birdproofing a complicated historic building is not a task for novices," he declares. "Most of the failures we see are caused by roofers or building managers who just don't know about birds," Pace says. "Our philosophy is to use the least amount of birdproofing that will solve the problem. But in order to get away with the minimum amount of visually intrusive material, the installer has to have detailed knowledge of the habits of the birds being controlled and how they interact with the building."

Bird Master designs, manufactures, installs, and sells a proprietary pin-and-wire system called Springuard. Manufactured in the U.S., Springuard has been used successfully on historic buildings in the U.S. for over 4 years. (Pin-and-wire systems have a 25-year track record in England.) Bird Master will either design and install an entire system, or will sell its Springuard product separately, along with technical advice on installation.

Building managers will also want to observe how birdproofing is being attached to the building. Mechanical fasteners are the most reliable and long-lasting — but they require penetrating the building surface. Silicone adhesives can also be used, but they require meticulous surface preparation to be effective. Here again, the skill and attention to detail on the part of the installer are paramount.



TRADITIONAL BUILDING's SourceList of HISTORIC ROOFING & SPECIALTIES

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■ COMPILED BY CLEM LABINE

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Bellvale Construction P.O. Box 127, Dept. TB Bellvale, NY 10912 (914) 986-5107	Specializes in roofing slate and copperwork for historic preservation projects. Slate is available in 9 colors, 2 sizes, and 3 thicknesses.	Free	✓	✓		✓	✓			Sheet metal roofing, skylights, drainage systems, copper built-in gutter systems	✓
Bird Control Technologies P.O. Box 135, Dept. TB Douglassville, PA 19518 (800) 354-8954	Bird control programs: Functional & mechanical guarantees; design and install non-destructive control methods; mechanical & chemical solutions; consultation and second opinions; specification writing nationwide.	Free <i>Write in No. 225</i>								Birdproofing	✓
Birdbusters 1083 Thos. Jefferson St., NW Washington, DC 20007 (800) 662-4737	Distributes and installs a variety of stainless steel birdproofing systems with proven performance records in the U.S. and Europe. Its Network Birdwire system has been approved for use by the General Services administration.	Free <i>Write in No. 307</i>								Birdproofing	✓
Bird-X, Inc. 730 W. Lake, Dept. TB Chicago, IL 60661 (312) 648-2191	Non-toxic chemical roost inhibitors, visual and sound devices, and physical barriers.	Free								Birdproofing	
Bird Master 11 Sixth Road, Dept. TB Woburn, MA 01801 (800) 562-2473	Designs and installs birdproofing systems to blend in with existing features of historic buildings. Their Springuard and Netguard systems are installed without penetration of stone or brick face. 5-yr. effectiveness guarantee; nationwide coverage.	Free <i>Write in No. 483</i>								Birdproofing; free consulting & design service	✓
Boston Valley Terra Cotta 6860 So. Abbott Rd., Dept. TB Orchard Park, NY 14127 (716) 649-7490	Custom manufacturer of architectural terra cotta and roof tile. Extensive experience on historic buildings.	Free <i>Write in No. 16</i>						✓			
Buckingham-Virginia Slate Corp. P.O. Box 8, Dept. TB Arvonnia, VA 23004 (804) 581-1131	Buckingham Slate is quarried from natural stone and its lustrous blue-black color will not fade.	Free	✓								
Classic Products, Inc. P.O. Box 701, Dept. TB Piqua, OH 45356 (800) 543-8938	Two styles of metal roofing: Rustic Shingle simulates hand-split cedar shake and Perma-Roof simulates slate shingle.	Free							✓		
Copper Coatings 8455 Commerce Ave. #B, Dept. TB San Diego, CA 92121 (800) 882-7004	Manufacturers of surface coatings and patina solutions used to give instant patina to copper and a wide variety of metal roofs and cornices — as well as many other substrates. 7 colors in all.	Free <i>Write in No. 315</i>				✓			✓	Sheet metal and copper patinas	
CCN USA, Inc. 8280 College Pkwy., Suite 204 Ft. Myers, FL 33919 (800) 551-4226	Clay roof tile in a wide array of designs: Double-glazed French, flat tiles, barrel, and more in 9 colors and a variety of sizes.	Free <i>Write in No. 950</i>						✓			
Cor-A-Vent, Inc. 2529 Lincolnway W., Dept. TB Mishawaka, IN 46544 (219) 255-1910	Manufactures a roof-ridge ventilation system that works with shingle, tile, metal, or cedar shake roofs.	Free								Ridge vents	
Craycroft Clay Products 2301 W. Belmont Ave., Dept. TB Fresno, CA 93728 (209) 268-5635	Clay roofing tile manufacturer offers 49 combinations of Spanish and non-interlocking flat shapes in earth-tone colors. Nationwide delivery; custom orders a specialty.	Free						✓			
Culbertson Enterprises, Inc. 790 E. Market St., Ste 110, Dept. TB West Chester, PA 19382 (215) 436-6400	Complete exterior restoration services including: Roofing, masonry, and concrete evaluation, repair, replacement, and restoration.	Free								Exterior restoration	✓
Details 783 Magellan Way, Dept. TB Napa, CA 94559 (800) 972-2670	Distributors of "Eco-Spec" products: Recycled natural slate, fiber/cement slate, and clay tile for both residential and commercial projects.	Free	✓					✓			

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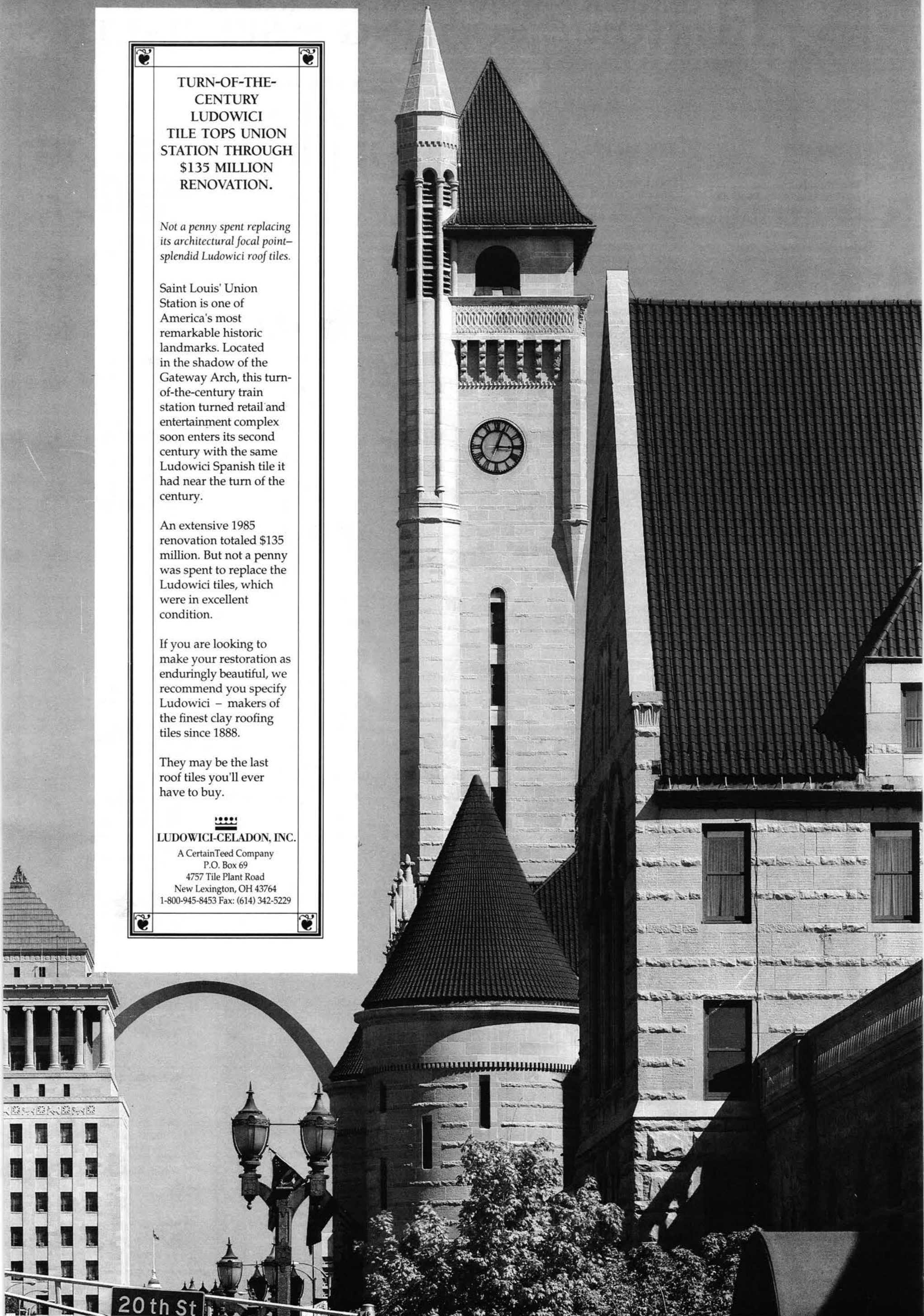
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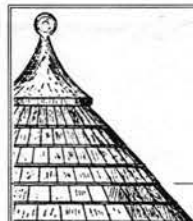


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WRITE IN NO. 276



TRADITIONAL BUILDING's SourceList of HISTORIC ROOFING & SPECIALTIES

CSI# 07300

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COMPANY	SPECIALTY	Literature	M A T E R I A L S						Other Products	Installation Services
			Natural Slate	Wood Shingles/Shakes	Concrete Tile	Standing-Seam Metal	Fiber/Cement Shingles	Clay Tile		
The Durable Slate Co. 1050 N. Fourth St., Dept. TB Columbus, OH 43201 (800) 666-7445 (614) 299-5522	Distributors and installers of natural slate with a stock of 200,000 pieces of salvaged slate; specialists in complete slate restoration and new slate roofs. Architectural sheet metal.	Free <i>Write in No. 372</i>	✓			✓			Sheet metal roofing, half-round metal gutters, wood gutter restoration	✓
Evergreen Slate Co., Inc. P.O. Box 248, Dept. TB Granville, NY 12832 (518) 642-2530	Natural Vermont roofing slate in wide range of sizes, colors, and weights. Experts in replacement slate matching; new installations; complete architectural services. Slate installation video.	Call for video Free brochure <i>Write in No. 713</i>	✓						Roofing tools, fasteners	
FibreCem Corporation P.O. Box 411368, Dept. TB Charlotte, NC 28241 (714) 527-2727	Slate-simulated fiber-cement slates; variety of colors and textures; 50-yr. warranty; zero-flame spread; wind-tested to 150 m.p.h..	Free					✓			
Fleetstar Corp. 481 Commerce St., Dept. TB Hawthorne, NY 10532 (914) 769-6722	Installers of Goodyear, Carlisle, Firestone, EPDM roofing; masonry repairs, waterproofing, concrete restoration, structural repairs, specialty epoxy flooring, and epoxy injection.	Free								✓
Harraseeket Roofing & Restoration, P.O. Box 221 S. Freeport, ME 04078 (207) 865-4428	Specialists in historic restorations of slate, copper, and tile roofs for over 80 yrs.	Free <i>Write in No. 223</i>	✓					✓	Restoration of slate, copper, tile	✓
W.P. Hickman Co. P.O. Box 15005, Dept. TB Asheville, NC 28813 (704) 274-4000	Full range of roof-edge products: Copings, fascias, and gravelstops.	Free							Metal roof edges, gravelstops, parapet copings	
Hilltop Slate, Inc. Route 22A, Dept. TB Middle Granville, NY 12849 (518) 642-2270	New York/Vermont roofing slate in all colors and sizes from 7 quarries. Specialists in matching and roofing slate for restoration.	Free <i>Write in No. 995</i>	✓							
Historic Oak Roofing 201 Locust St., Suite 913 Knoxville, TN 37902 (615) 523-4944	White and chestnut logs are milled into long-lasting hand-split shakes, smooth-sawn shingles, and split-sawn shingles; 50-yr. warranty.	Free		✓						
Historical Arts & Casting P.O. Box 35, Dept. TB West Jordan, UT 84084 (800) 225-1414	Custom foundry has extensive experience in design and production of architectural castings in iron, aluminum, and bronze for both historic buildings and new construction.	Free <i>Write in No. 121</i>						✓	Cresting, finials, cornices	✓
JC Sheetmetal, Inc. 8 Nichols Ave., Dept. TB Brooklyn, NY 11208 (718) 235-0109	Specialists in landmark and restoration projects; can replicate roofing ornament, cornices, skylights. Architectural sheet metal; large or small projects; all metals.	Free	✓			✓		✓	Cresting, skylights, gutter systems, snow guards, more	✓
J.C. Lauber Sheet Metal Co., Inc. 504 E. LaSalle Ave., Dept. TB South Bend, IN 46617 (219) 234-4174	Fabricators and installers of sheet metal roofing, flashings, gutters, conductor heads, finials. Also install slate and tile roofs.	Free	✓			✓			Sheet metal roofing, architectural sheet metal, half-round metal gutters, finials	✓
Landmark Rigging, Inc. 63 Main St., Dept. TB Florence, MA 01060 (413) 586-4121	Full range of steeplejack and rigging services for repair of steep roofs, cupolas, steeples, etc. Extensive experience on historic buildings.	Free <i>Write in No. 759</i>	✓					✓	Rigging & steeplejack services	✓
Lewis Industries 1129 Hwy. 101 N., Dept. TB Crescent City, CA 95531 (707) 464-5844	Mills all types of wood gutters, custom moldings, and trim from old-growth heart redwood; custom matching.	Free <i>Write in No. 390</i>							Wood gutters, exterior and interior trim and moldings	
Liberty Cedar 535 Liberty Lane, Dept. TB W. Kingston, RI 02892 (401) 789-6626	Western red cedar tapersawn shakes, handsplit and resawn shakes, tapersplit shingles, and straightsplit shakes. Historic projects a specialty.	Free <i>Write in No. 653</i>		✓						✓
Ludowici-Celadon, Inc. 4757 Tile Plant Rd., Dept. TB New Lexington, OH 43764 (614) 342-1995	Manufacturers of clay roof tiles for restoration and new work; custom manufacturing of all tiles and patterns; 75-yr. limited warranty.	Free <i>Write in No. 276</i>						✓	Finials, snow guards, copper nails	✓
MBCI P.O. Box 38217, Dept. TB Houston, TX 77238 (713) 445-8555	Fabricators of metal roofing panel systems for residential projects. Available in variety of widths, gauges, and colors (38).	Free				✓			Sheet metal roofing, skylights	
Merchant & Evans, Inc. 100 Connecticut Dr., Dept. TB Burlington, NJ 08016 (609) 387-3033	Produces a wide variety of architectural metals — standing-seam systems, fascias, soffits, structural standing seam, and aluminum cornices.	Free				✓			Half-round metal gutters, snow guards, drainage systems, metal cornices	
Metal Roofing Specialties Box 235, Dept. TB Lenni, PA 19052 (215) 674-1661	Manufacturer and distributor of terne-coated stainless materials for roofing, flashing, and architectural sheet metal applications.	Free				✓				
Metal Sales Mfg. Corp. 10300 Linn Station Rd., Dept. TB Louisville, KY 40223 (502) 426-5215	Manufactures a wide range of traditional metal roofing products, including metal tiles, and Pro-Loc architectural metal roofing.	Free				✓		✓		



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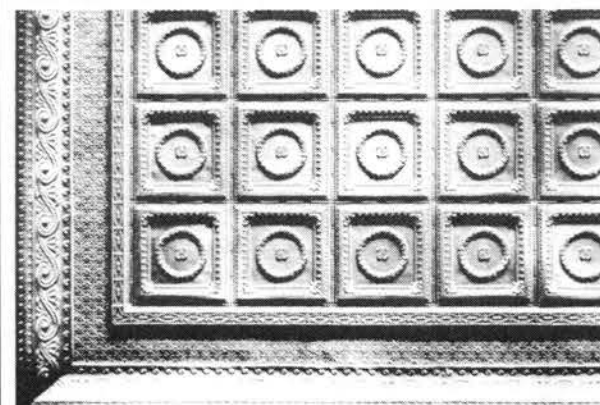
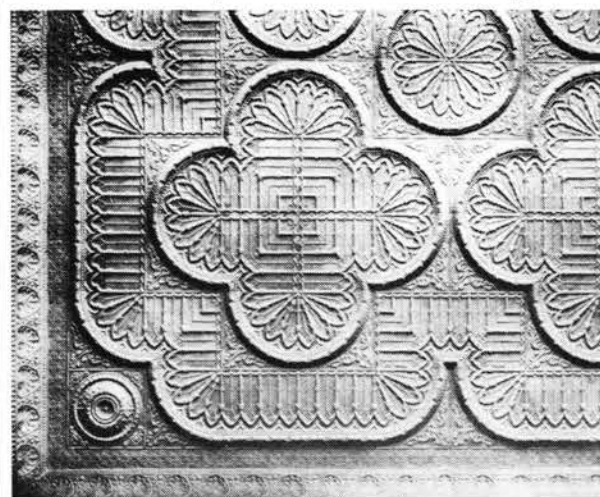
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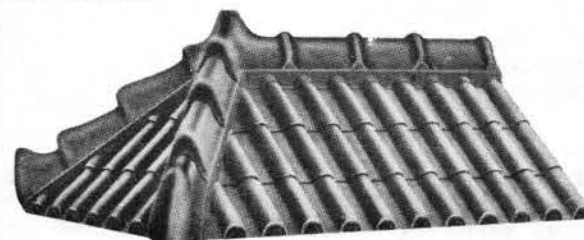
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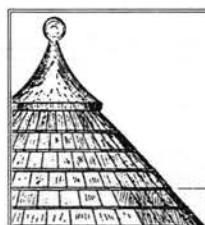
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WRITE IN NO. 927



TRADITIONAL BUILDING's *SourceList of* HISTORIC ROOFING & SPECIALTIES

CSI# 07300

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COMPANY	SPECIALTY	Literature	M A T E R I A L S							Other Products	Installation Services
			Natural Slate	Wood Shingles/Shakes	Concrete Tile	Standing-Seam Metal	Fiber/Cement Shingles	Clay Tile	Metal Shingles		
Midland Engineering 52369 U.S. 33 No., Dept. TB South Bend, IN 46624 (219) 272-0200	Custom designer and installer of traditional roof systems including slate, tile, standing-seam metal, and drainage systems. Experienced on large historic buildings.	Free <i>Write in No. 742</i>	✓	✓	✓	✓	✓	✓	✓	Lightning protection, cresting, finials, skylights, snow guards, etc.	✓
Hunt Miller Co. 20521 Whites Ferry Rd., Dept. TB Poolesville, MD 20837 (301) 428-8061	Architectural sheet metal contractor fabricates historic metal roofs, cornices, finials, conductor heads, and sheet metal ornament.	Free <i>Write in No. 929</i>				✓				Cornices, finials, sheet metal ornament	✓
MJ Mullane Copper Products 17 Mason St., Dept. TB Hudson, MA 01749 (508) 568-0597	Bronze snow guards in eagle and standard castings for slate, wood, shingle, and metal roofs. Slate guard easily retrofit to existing roofs with no removal of slate.	Free <i>Write in No. 56</i>								Snow guards Large decorative bronze castings	✓
New England Slate Co. Burr Pond Road, Dept. TB Sudbury, VT 05733 (802) 247-8809	New and salvaged roofing slates in full color range, especially for matching on restorations. Custom cutting service for special shapes.	Free <i>Write in No. 7</i>	✓							Slating tools, copper nails, snow guards	
Newport Fastener Co. 1300 Gene Autry Way, Dept. TB Anaheim, CA 92805 (714) 385-1111	Roof fastener specialists for 31 years. Manufactures architectural metals for tile roofs, including Tyle-Tye and Tile-Tie fastening systems and hurricane clips for roof tile.	Free <i>Write in No. 391</i>								Birdproofing, snow guards, sheet metal, fasteners for clay & concrete tile	
Nicholson & Galloway, Inc. 261 Glen Head Rd., Dept. TB Glen Head, NY 11545 (516) 671-3900	Full-service exterior restoration contractor, including roofing, masonry, sheetmetal, carpentry, surveys, and full restoration programs.	Free	✓	✓	✓	✓	✓	✓	✓	Lightning rods, cresting, skylights, drainage systems, sheetmetal	✓
Nixalite of America Inc. 1025 16th Ave., Dept. TB E. Moline, IL 61244 (800) 624-1189	Nixalite strips present a simple barrier of needle-sharp stainless steel points that do not harm birds, but prevent their landing or roosting on the surface protected. Used worldwide with humane society acceptance.	Free <i>Write in No. 37</i>								Bird-proofing products	
W.F. Norman Corp. P.O. Box 323, Dept. TB Nevada, MO 64772 (800) 641-4038	Manufactures sheetmetal roofing tiles, finials, and cresting from original turn-of-the-century dies. Large selection of ornamental leader boxes in stock patterns. Custom architectural sheet metal.	Free <i>Write in No. 52</i>							✓	Leader boxes, cresting, finials, custom work	
Northern Roof Tile Sales P.O. Box 275, Dept. TB Millgrove, ONT L0R 1V0 (416) 627-4035	Single source for clay roof tiles and related accessories. All profiles, colors, and finishes. Handmade cresting and chimney pots.	Free						✓		Cresting, finials, snow guards, fasteners	
Penn Big Bed Slate Co., Inc. P.O. Box 184, Dept. TB Slatington, PA 18080 (215) 767-4601	Roofing slate, structural slate, slate tiles and flooring, slate sills and treads, fireplace facing.	Free	✓								
Petersen Aluminum Corp. 955 Estes Ave., Dept. TB Elk Grove, IL 60007 (800) 323-1960	Manufactures complete line of architectural roofing panels and trim. Panels available in 24 Kynar 500 colors on steel and 11 Kynar 500 colors on aluminum.	Free				✓				Copings, gravel stops, fittings, and trim	
RTS Company 1805 Newton Ave., Dept. TB San Diego, CA 92113 (619) 696-0102	Metal roofing tile, shingles, and panels. Steel or aluminum components.	Free							✓	Metal Spanish tile	
Regal Mfg. Co., Ltd. 75 Bickford Hill Rd., Dept. TB Gardner, MA 01440 (508) 852-4888	Britslates are formed from natural slate particles bound in resin. Available in 4 colors. Class A fire rating.	Free								Slate substitute	
Renaissance Roofing, Inc. 2415 Charles St., Ste. 200 Rockford, IL 61108 (815) 397-8909	Buy and sell used and salvaged clay roof tiles and slate. Nationwide installation service available with the company's own crews.	Free <i>Write in No. 371</i>	✓						✓		✓
Richmond Precast Concrete Products P.O. Box 37099, Dept. TB Richmond, VA 23234 (804) 275-8262	Manufactures flat concrete shingle tile in various colors and textures. Tiles can be customized to resemble wood, slate, and other materials.	Free <i>Write in No. 634</i>			✓						
Rogers & Smith Roofing Co. 251-1/2 Grove Ave., Dept. TB Verona, NJ 07044 (201) 744-0820	Roofing contractor experienced with traditional roofs, including slate and tile. Custom copper work, wood roofs, drainage systems, and complete exterior restoration.	Free <i>Write in No. 746</i>	✓	✓	✓	✓	✓	✓	✓	Sheet metal, skylights, snow guards, finials, gutters	✓
Roof Accessories Co. P.O. Box 419, Dept. TB Medway, MA 02053 (800) 447-2141	Manufactures a range of drain systems, drain guards, strainers and related accessories for flat roof drainage.	Free								Drainguards	
The Roof Center, Inc. 5244 River Rd., Dept. TB Bethesda, MD 20816 (301) 656-9231	Major East Coast roofing distributor with 7 locations carries complete inventory of roofing materials and fittings for all traditional roofing jobs.	Free	✓	✓	✓	✓	✓	✓	✓	Architectural sheet metal, skylights, drainage	

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WRITE IN NO. 371



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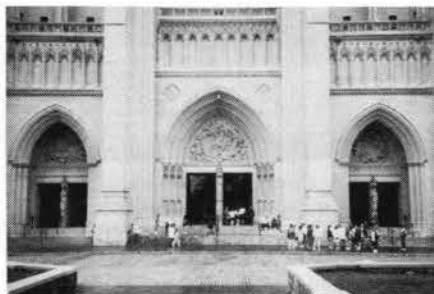
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WRITE IN NO. 721

ROOFING & SPECIALTIES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 40-46.



Complete restoration of the roof of the Wayne County Courthouse — including new Vermont slate, sheet metal, structural carpentry, masonry, and lightning protection — was carried out by workers from MIDLAND ENGINEERING. Write in No. 742



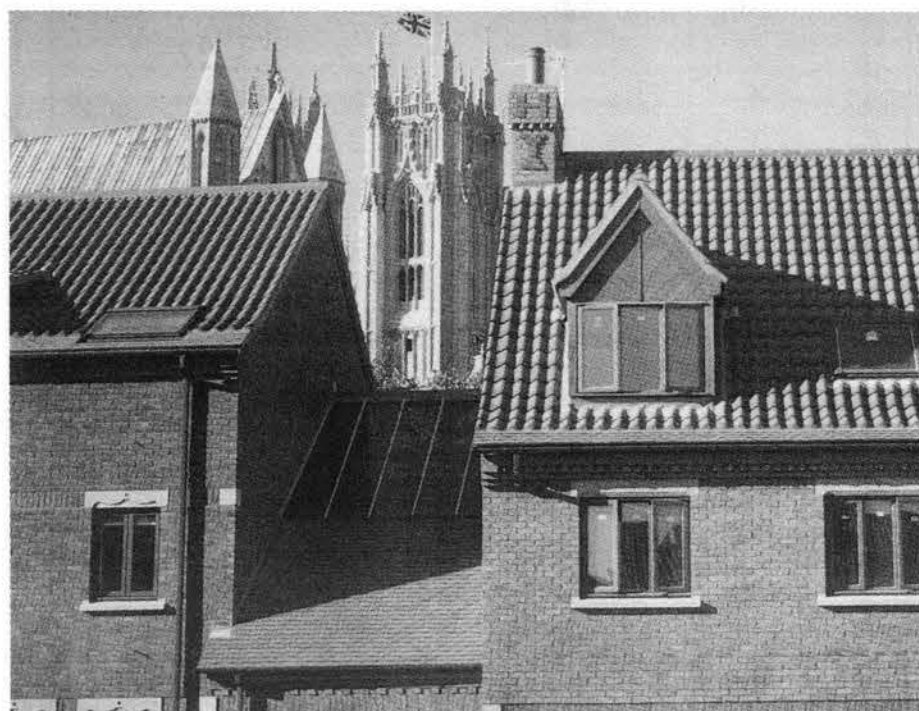
The elaborate ornamental metalwork for restoration of this 19th-century oriel window in Chicago was custom-fabricated by craftspeople from THE DURABLE SLATE CO. Write in No. 372



The twisted-wire "Tyle-Tye" system from NEWPORT FASTENER secures all types of roofing tiles to any type of roof deck material and any slope. Write in No. 391



Technical assistance was provided by TILE ROOFS, INC., for restoration of the tiles and copper on the roof of this large (16 bathrooms!) Italianate villa on Jekyll Island, Ga. Write in No. 457



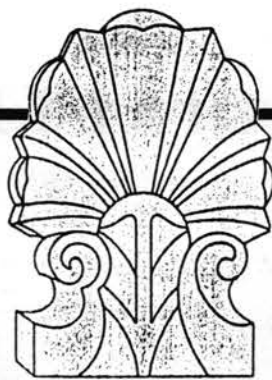
These pantiles with an unusual eave detail are from NORTHERN ROOF TILE SALES. The firm also supplies a wide range of architectural clay products, including hand-formed cresting and chimney pots.



TROPIC TOP is a lightweight metal shingle that installs easily, is fireproof, requires no maintenance, and provides the look of tropical thatch without the headaches. Write in No. 387



Supra-Slate II is a fiber-cement slate for use in place of quarried stone. It carries a Class A fire rating and provides freeze-thaw protection. From SUPRADUR, the slate substitute is available in five integral colors and offers easy, storm-anchor-free installation. Write in No. 927



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Hendricks Tile is made in colors and textures selected for the individual job. Hand-finished to achieve a unique natural appearance, the tile weathers to a warm, mellow color that sets it apart from any other roofing product. The tile ages extremely well — even in freeze-thaw conditions.

First made in 1926, Hendricks Tile beautifies and protects fine homes up and down the East Coast — including Colonial Williamsburg. Call or write for full-color brochure.

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At last, the demand has been met for a thatch that is virtually indestructible. Tropic Top™, a lightweight metal shingle, colorfast, 100% fireproof, installs as easily as ordinary roof shingles, and has the appearance of natural thatch without any of the disadvantages.

It is cost effective because you will never have to replace it. We are able to help with design and installation requirements for your particular roofing application.

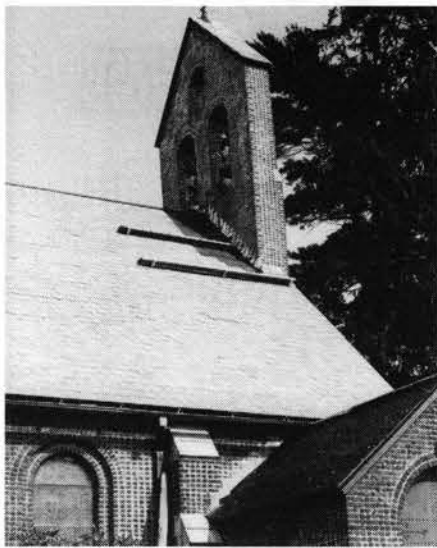
Tropic Top™

2028-3 Eastbourne Way, Orlando, FL 32812
Phone and Fax: 407/273-0069

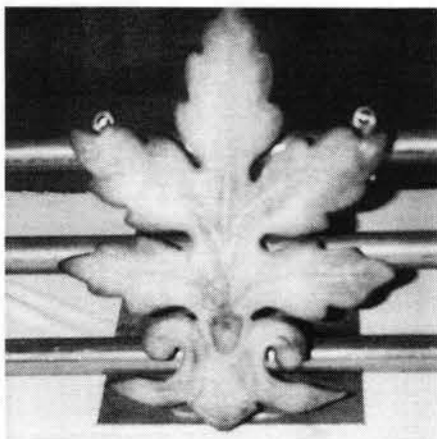
WRITE IN NO. 387

ROOFING & SPECIALTIES PORTFOLIO

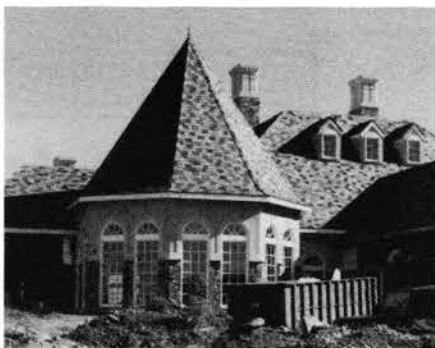
For more information on these companies, consult the SourceList on pp. 40-46.



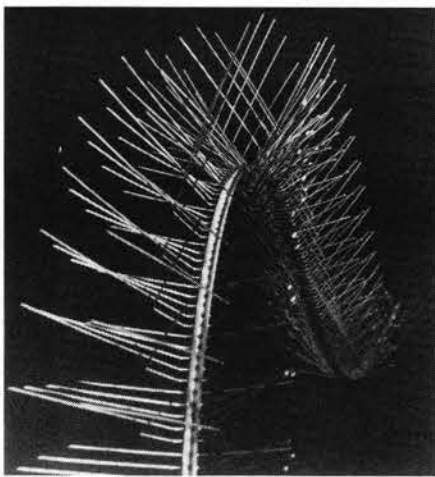
YANKEE STEEPLEJACKS did a total strip and re-roof of all the slate and copper on Trinity Church in Roslyn, N.Y. — Stanford White's last commissioned work. Architect on the restoration was Walter Sedovic, AIA. *Write in No. 348*



Among the new roof specialty products from **M.J. MULLANE** is this cast-bronze oak leaf snowguard bracket. *Write in No. 56*



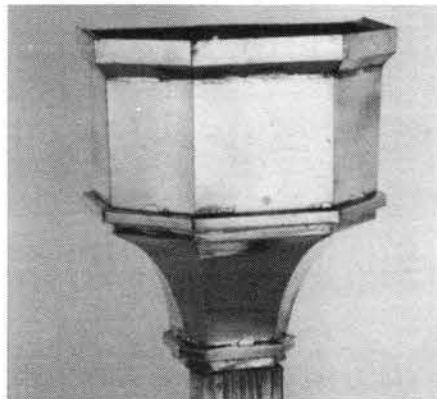
The variegated slate for the roof of this new residence was chosen from the extensive color range available from **EVERGREEN SLATE CO.** *Write in No. 713*



NIXALITE strips repel birds ranging in size from sparrows to vultures, including the most common pests, pigeons, sea-gulls, swallows, and starlings. The low-visibility material can be bent to conform to irregular architectural ornament. *Write in No. 37*



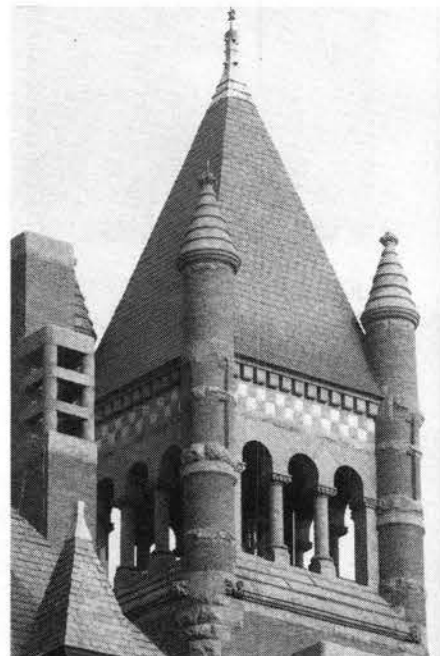
A U.S. Coast Guard station on the Maine coast is shown getting a new slate roof installed by a crew from **HARRASEEKET ROOFING & RESTORATION.** *Write in No. 223*



Ornamental leader boxes are just one of many sheetmetal roofing specialties available from **VERMONT SLATE & COPPER SERVICES.** *Write in No. 721*



The western red cedar shingles for this handsome roof were supplied by **LIBERTY CEDAR.** *Write in No. 653*

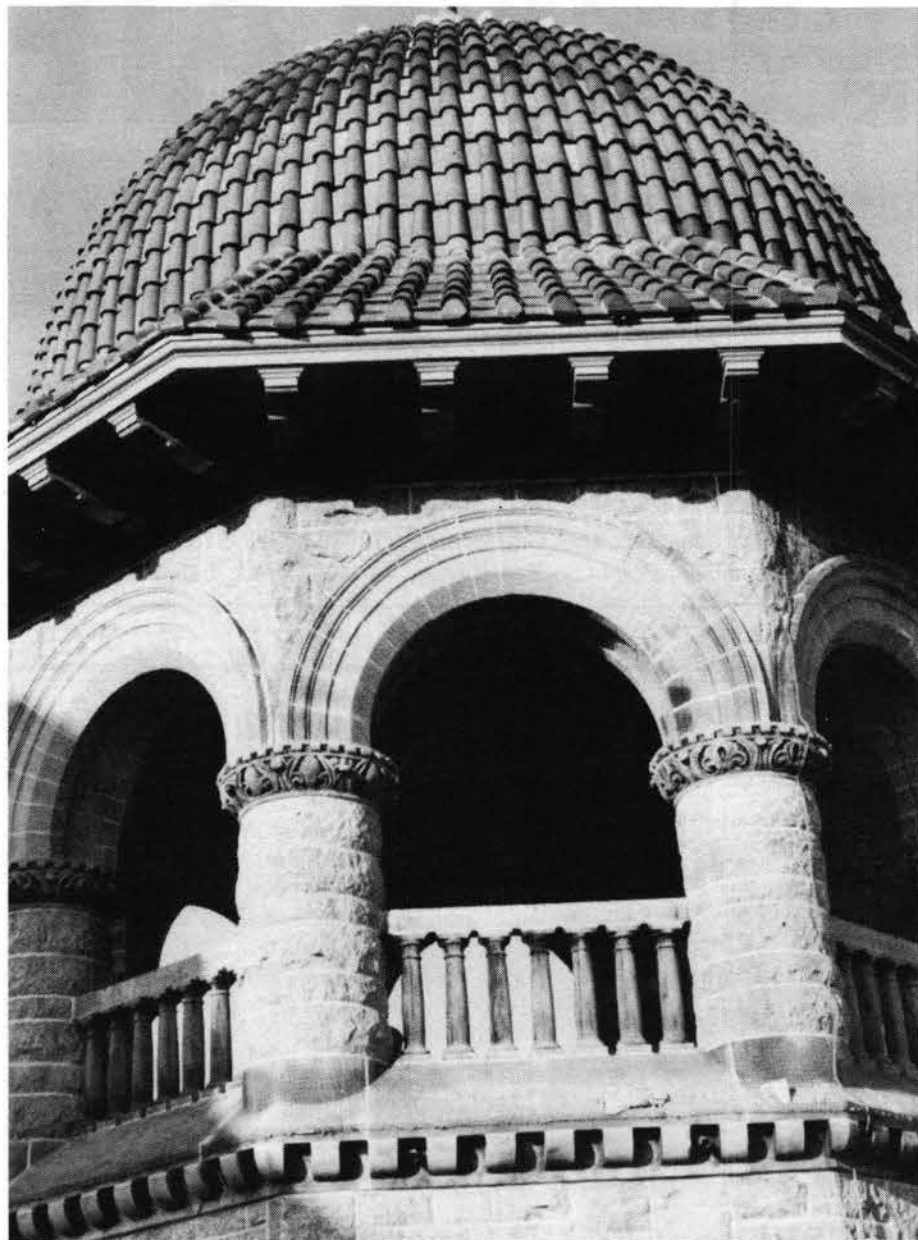


Slate roof on the picturesque High-Victorian Gothic tower at Glatfelter Hall, Gettysburg College, Gettysburg, PA, was furnished by **SLATE INTERNATIONAL, INC.** *Write in No. 934*

Ludowici Adds 25 Years To Its Roof Tile Warranty



Ludowici-Celadon, the largest manufacturer of premier clay roof tiles in the U.S., has announced it's now offering a 75-year limited warranty on all its clay roof tile products. Previously, the warranty was 50 years. In addition to lengthening the period, Ludowici also includes color fastness in the warranty. The company is believed to be unique in offering such a long warranty — and including durability of tile color in the coverage. *Write in No. 276*



Replacement tile for this Romanesque stone tower at Berea Temple, Baltimore, Md., was custom-produced by **BOSTON VALLEY TERRA COTTA.** *Write in No. 16*

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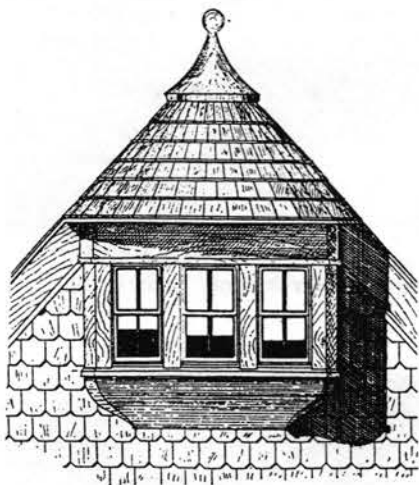
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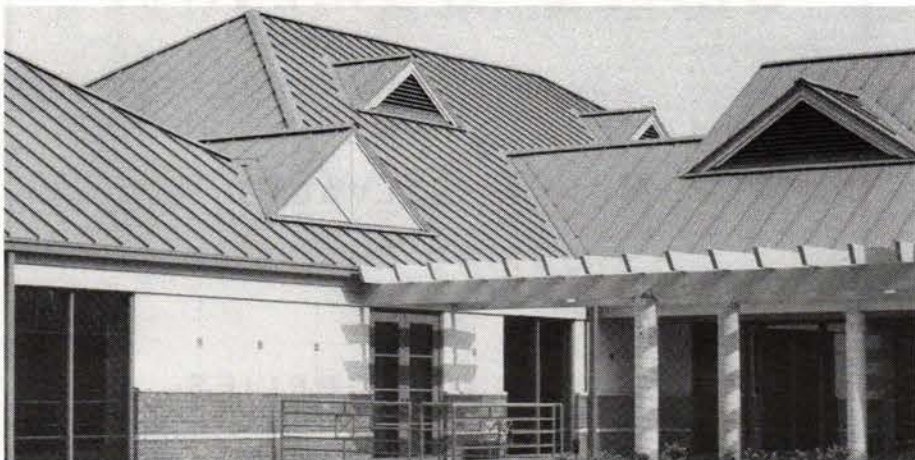
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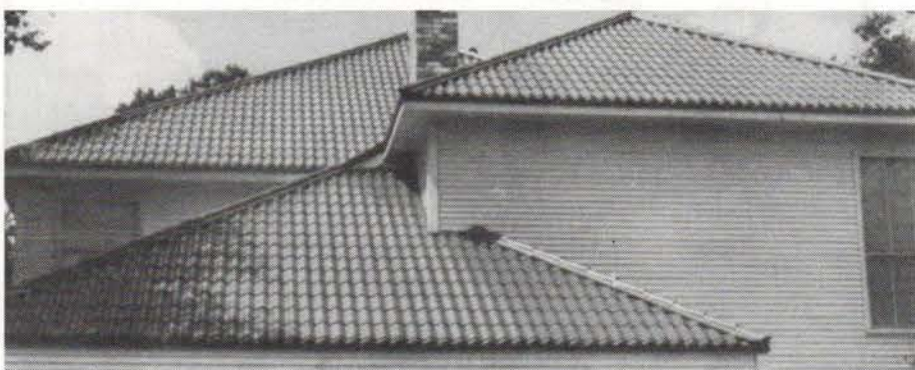
WRITE IN NO. 950

ROOFING & SPECIALTIES PORTFOLIO

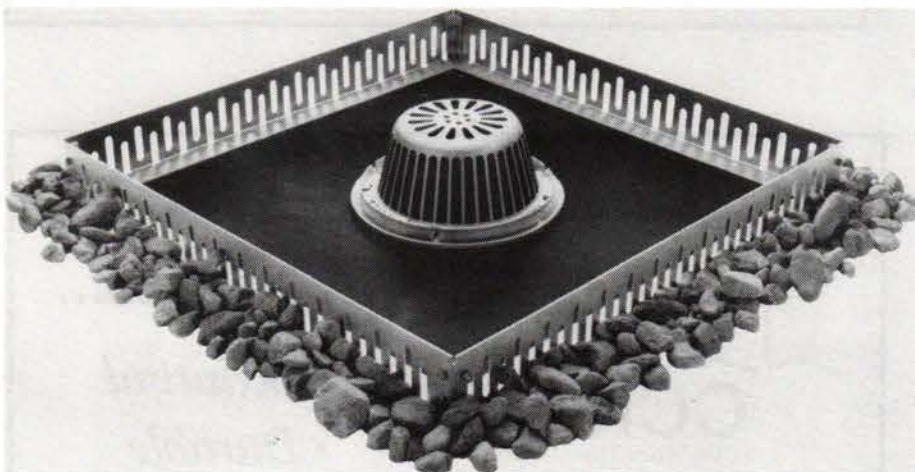
For more information on these companies, consult the SourceList on pp. 40-46.



The high-seam profile design on this Tyler, Tex., golf resort roof incorporates an integral seam for panel engagement supplied by AEP-SPAN.



The look of clay tile on this new residence was created with the help of lightweight "Stile" metal panels from METAL SALES MANUFACTURING CORP.



Drain protection system from ROOF ACCESSORIES CO. is designed to prevent leader blockage caused by stray debris on flat roofs.



Steeplejacks from LANDMARK RIGGING restore the cupola and weather-vane on the Sunderland, Mass., town hall. Write in No. 759



This Roman clay roof tile is just one of a wide array of clay tile designs imported by CCN CLAY ROOF TILES. Write in No. 950



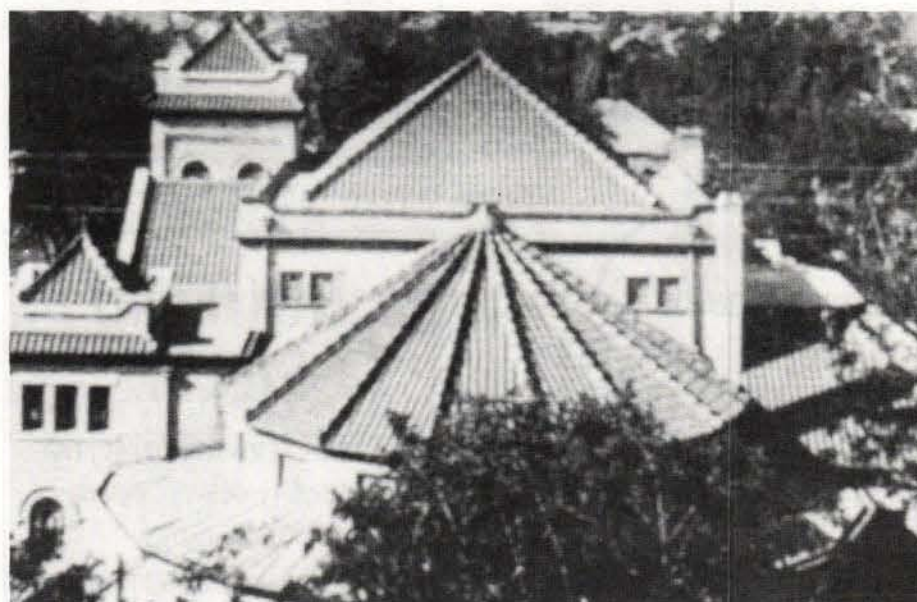
Wood-fiber cement shingles from AMERICAN CEMWOOD simulate the look of a wood roof and carry a Class A fire rating.



The forest green integral standing-seam roof on this Maryland home was supplied by PETERSEN ALUMINUM CORP.



Tower and roof covered with Early American slate concrete tiles from VANDE HEY-RALEIGH. The turret tile were custom produced for this job. Write in No. 284



From original turn-of-the-century dies, W.F. NORMAN produces lightweight metal shingles in four styles: Spanish Tile, Mission Tile, and two versions of flat shingles. Write in No. 52

INSTANT ACCESS

TO PRODUCT LITERATURE FOR ROOFING SPECIALTIES

If your office qualified to receive the 1993 TRADITIONAL BUILDING CATALOG, you'll find prefired product literature there for the following suppliers of Roofing & Specialties:

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- MULLANE COPPER PRODUCTS • NIXALITE
- W.F. NORMAN • VANDE HEY-RALEIGH ROOFING
- ZALESKI SNOW GUARDS

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WRITE IN NO. 415

The best book about slate roofs is:

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It's full of well-organized information — historical, scientific, and practical. It is required reading for any roofer or homeowner. The price (ppd.) is \$11.95.

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WRITE IN NO. 746

Secrets of Roofing With Slate

A slate roof, properly installed, will last 75 to 100 years. However, there aren't a lot of skilled slate installers around today.

To help overcome this problem, Larry and Brian Stearns of Vermont Slate & Copper Services have teamed with Evergreen Slate Co. to produce an excellent video showing the fine points of installing and repairing slate roofs. The video is aimed at roofing contractors who want to improve their slating skills — and architects who have to supervise roofers. But it could also be useful to building owners and property managers with good skills who want to undertake their own roof repairs.

The video goes into the fine points of using slaters' tools, cutting and shaping slates, laying out a roof, detecting faulty slates, proper setting of nails, flashing



and slating valleys, handling roof penetrations, replacing missing slates — and many other tricks of the trade. Larry and Brian also show how to rig brackets for working safely on the roof while installing slates.

The 60-minute video is available for \$100 (incl. shipping and handling). Send check or they'll ship C.O.D.

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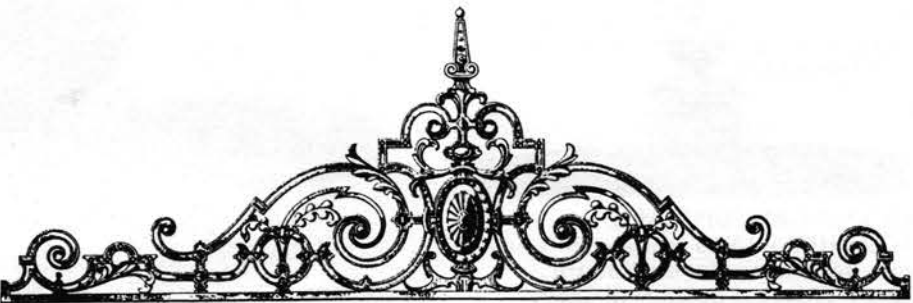
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WRITE IN NO. 225



WEATHERVANES & FINIALS

special
report

Weather vanes & Finials: Lofty Considerations

BY SHARON GARBE

Advances in modern meteorology offer more accurate means of forecasting than weather vanes. But many weather vanes still hold exalted community status atop the highest spires of a town. Many more are being added to the rooftop stratum by consumers looking for ways to personalize their property. Like vanity plates on vehicles, weather vanes offer a unique outlet for communicating the predilections of a building's occupants. For corporations, they become another forum for advertising a company's products or logo.

Travis Tuck, a metal sculptor who specializes in custom weather vanes, describes three levels of quality in dimensional weather vane production analogous to the differences between mass-produced prints, silkscreened

prints, and paintings. The first are machine-stamped into molds and retail from \$100 to \$150. The second level are hand-hammered into molds and range in price from \$300 to \$600, and finally there are the unique repousse pieces which are worked from behind on wooden forms with hammers and chisels, and typically cost between \$2,500 to \$6,000, while going as high as \$15,000.

Tuck notes that one of the most important things to consider when ordering a weather vane is how it will be mounted. The less expensive, mass-produced models may not include suitable mounting hardware. ♦

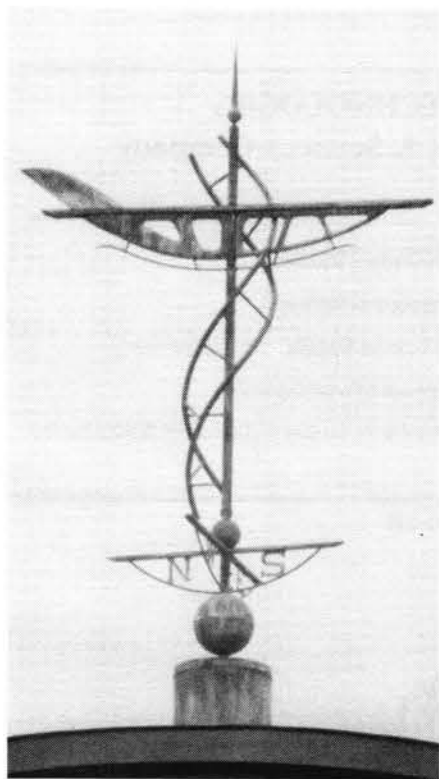
□ From the 38 craftspeople and suppliers contacted for this SourceList, the editors have chosen 20 companies in order to present our readers with a range of options for custom and stock weather vanes and finials of both traditional and non-traditional design.

WEATHERVANES & FINIALS PORTFOLIO

For more information on these companies, consult the SourceList on pg. 56.



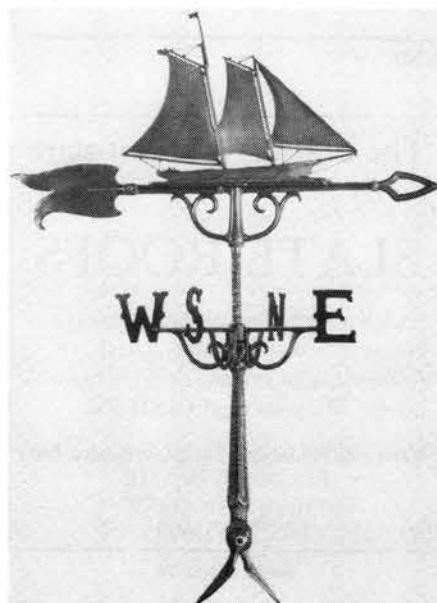
Besides producing vanes and finials, SALT & CHESTNUT WEATHERVANES produces this unique product for covering roof vent pipes. The company offers a few different lighthouse designs to choose from. Write in No. 659



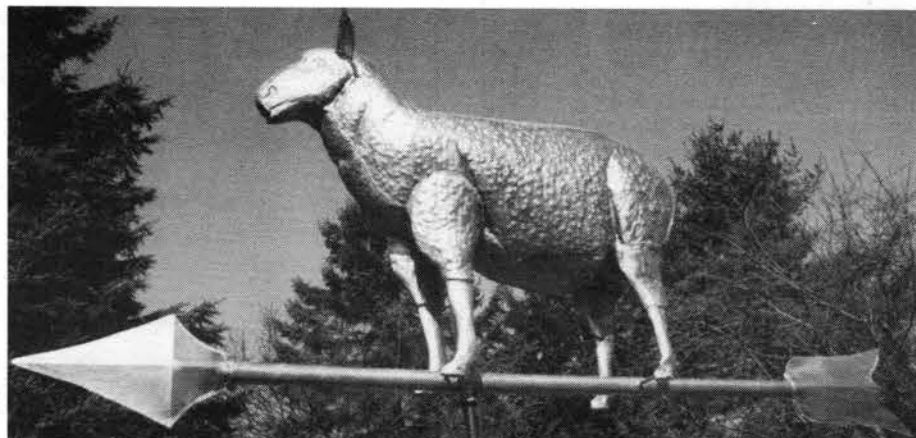
DENNINGER CUPOLAS & WEATHER VANES produced this custom weather vane for the Howard Hughes Medical Institute in Chevy Chase, MD. The vane depicts the double helix of a DNA molecule intertwined with the hull of the Spruce Goose. Write in No. 730



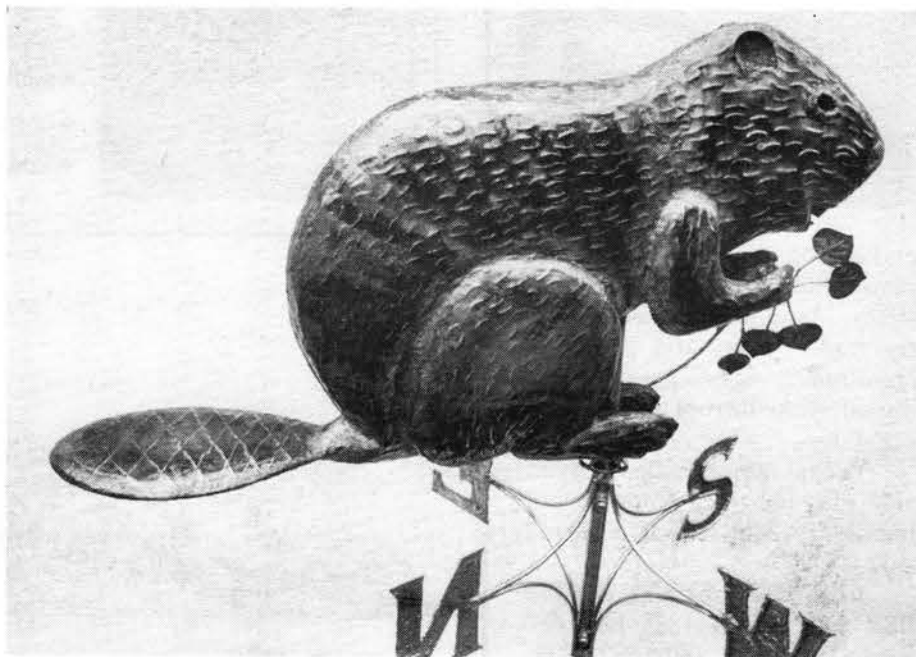
Redwood finial on copper-clad cupola by ACCENT MILLWORKS, INC. Write in No. 401



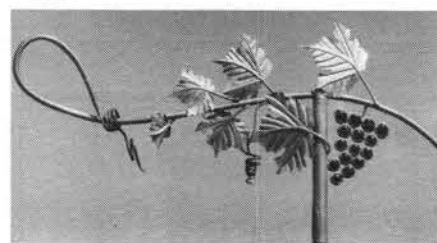
Cast-aluminum weather vane in the shape of a sailing vessel, available from WHITEHALL PRODUCTS. Write in No. 398



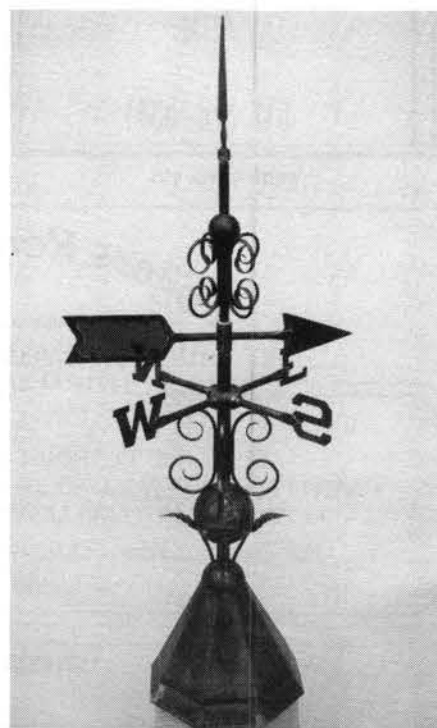
MACQUARRIE & NICCUM hammered this custom sheep vane from 16 oz. copper. The design was taken from a photograph supplied by the client. Write in No. 654



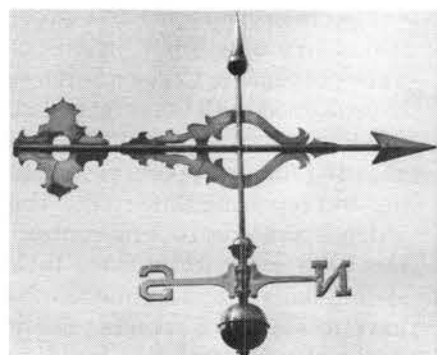
This irresistible repousse beaver nibbling an aspen branch was created by TRAVIS TUCK, METAL SCULPTOR. Write in No. 394



This delicate glass, brass, and copper grapevine vane is one of the many styles produced by IVES WEATHERVANES.

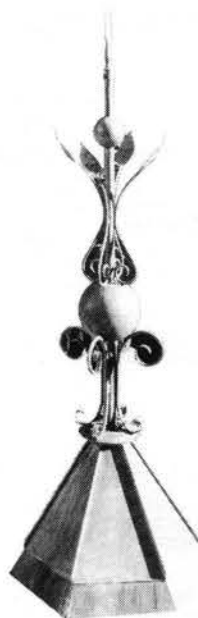


Arrow weather vane with stained glass inserts by FISCHER ARTWORKS. The overall height is 40 in.; the skirt can be built to client's particular roof pitch. Write in No. 172



Antique replica arrow weather vane by CROSSWINDS GALLERY. Write in No. 263

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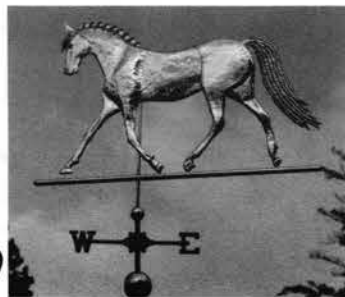
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A Carolina Craftsman 975 S. Avocado St., Dept. TB Anaheim, CA 92805 (714) 776-7877	Manufacturer/distributor of replacement house and furniture hardware specializing in authentic antique designs.	Free brochure; catalog \$5.		✓			Lightning rods & finial assemblies	Cast bronze, sheet brass	0%
Accent Millworks, Inc. 285 N. Amboy Rd., Dept. TB Conneaut, OH 44030 (216) 593-6775	Supplies stock weathervanes in sizes from 24 in. to 60 in. Most have a black baked-enamel finish with pewter or gold/bronze color as options. Also manufactures redwood cupolas and redwood finials.	Free Write in No. 401	✓	✓	✓		Cupolas	Cast aluminum	2%
Adornments for Architecture 309 Hollow Rd., Dept. TB Staatsburg, NY 12580 (914) 889-8390	Custom foundry and fabrication shop for pattern and mold making specializing in architectural products.	Free Write in No. 749	✓	✓	✓	✓	Cupolas, spires, steeples, lightning rods, towers, turrets, spires, and steeples	Sheet copper, cast aluminum, cast bronze, brass	75%
Architectural Iron Co. P.O. Box 126, Dept. TB Milford, PA 18337 (800) 442-IRON	Company specializes in matching roof crestings, finials, and other period products. Company also carries a number of stock designs with customized mounting brackets for any roof condition.	Free			✓	✓		Cast aluminum, cast iron, steel	80%
Colonial Cupolas, Inc. 5902 Buttonwood Dr., Dept. TB Haslett, MI 48840 (517) 339-4320	Over 77 CopperCraft weathervane designs — most are full-bodied — and more than 140 Whitehall aluminum styles, both full-bodied and silhouette.	Free Write in No. 393	✓	✓			517 standard cupolas - assembled or kits	Sheet copper, cast aluminum	10%
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Crosswinds Gallery 980 East Main Rd., Dept. TB Portsmouth, RI 02871 (401) 683-7974	3000 stock weathervane design. Custom design specialists; all types, sizes, and finishes, including gilding. Also carries parts, antiques, and large selection of stock and custom cupolas.	Free Write in No. 263	✓	✓	✓		Cupolas, copper caps, finials, spires	Sheet copper, cast aluminum, bronze, stainless steel, brass, wood	95%
Denninger Cupolas & Weather Vanes RD 1, Box 447, Dept. TB Middletown, NY 10940 (914) 343-2229	Company offers weathervanes, caps, and finials handcrafted from architects' specs, replicated from antique originals or available from its extensive catalog of silhouette, swell- and full-bodied designs.	Free brochure Write in No. 730; catalog \$4	✓	✓	✓		Caps	Sheet copper, brass, aluminum, steel, stainless steel	60%
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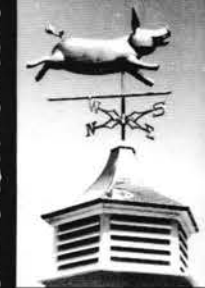
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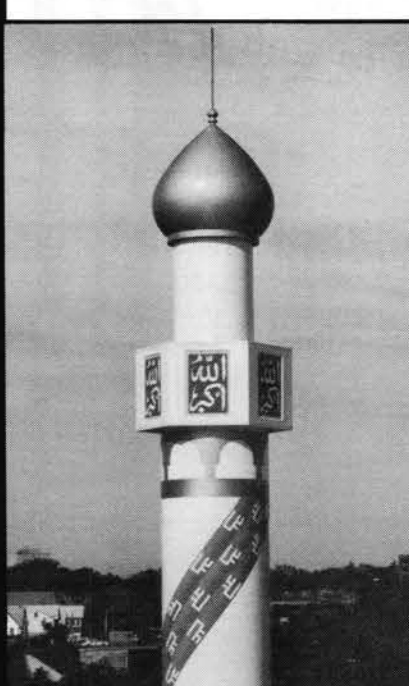
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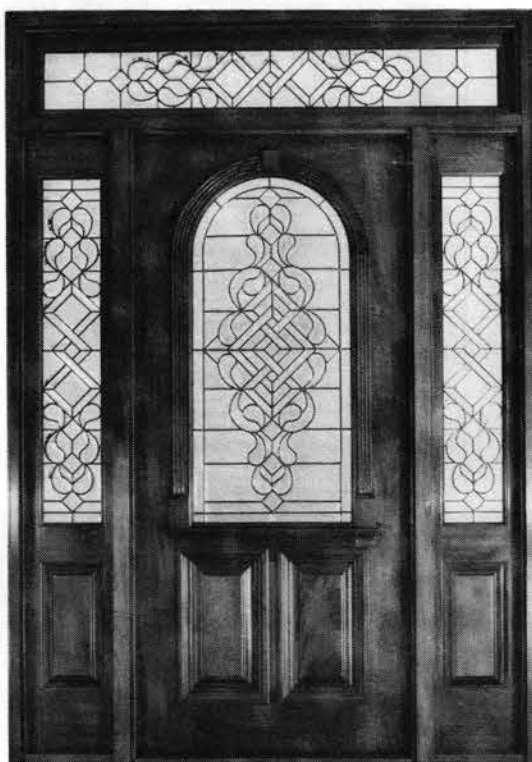
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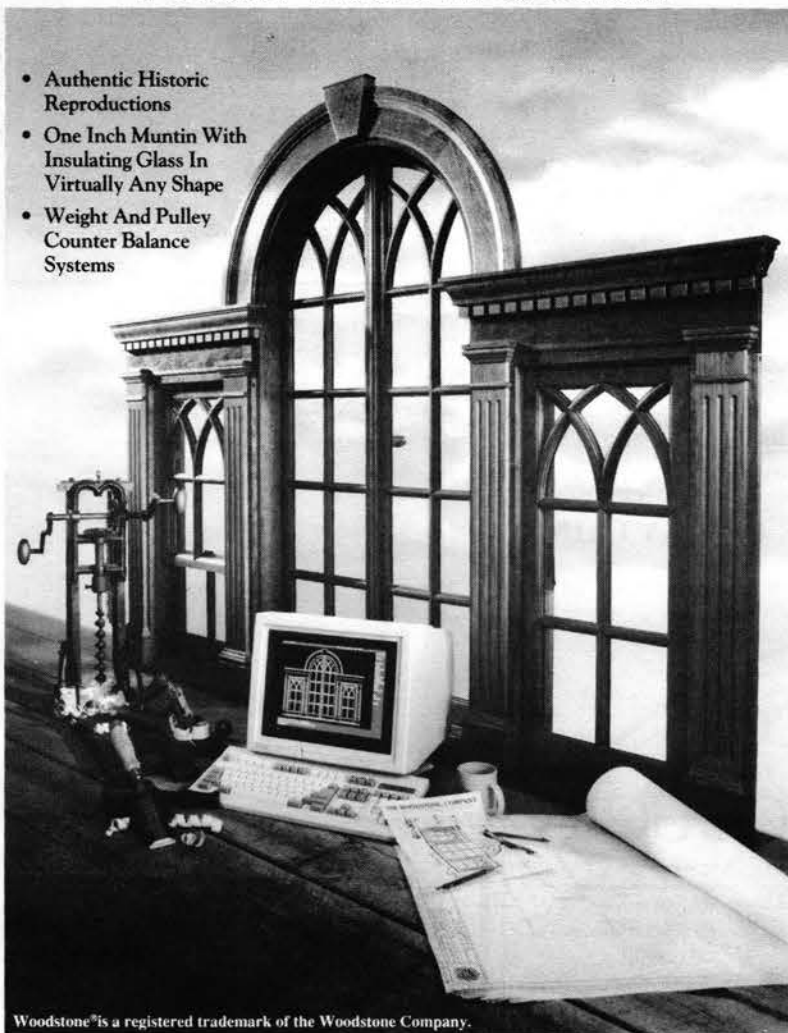
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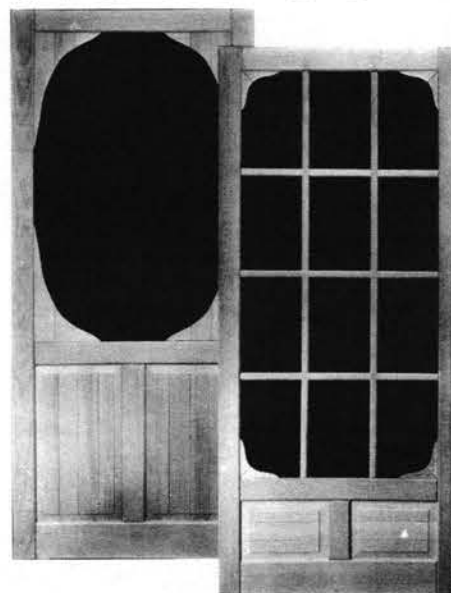
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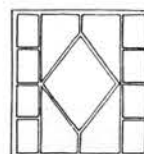
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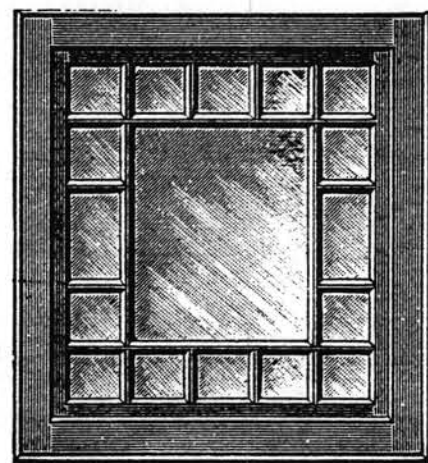
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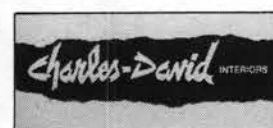
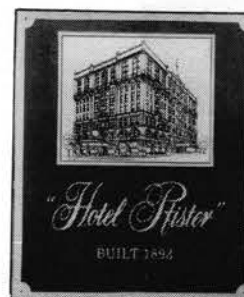
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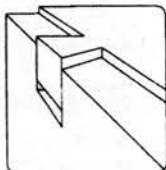
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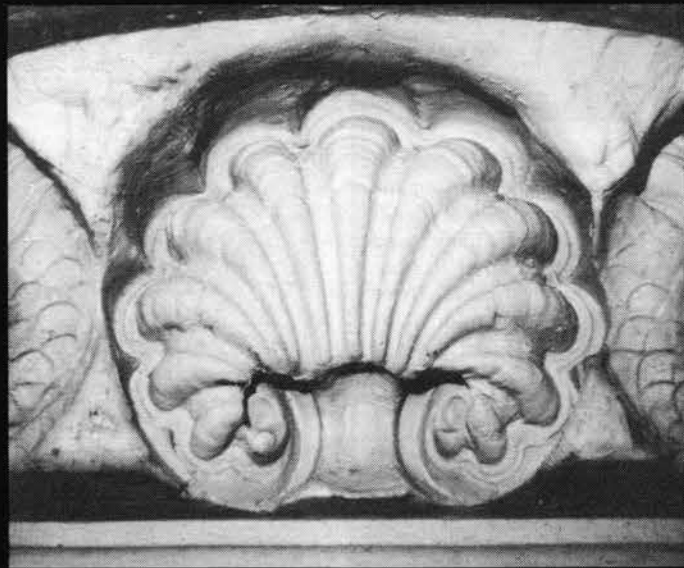
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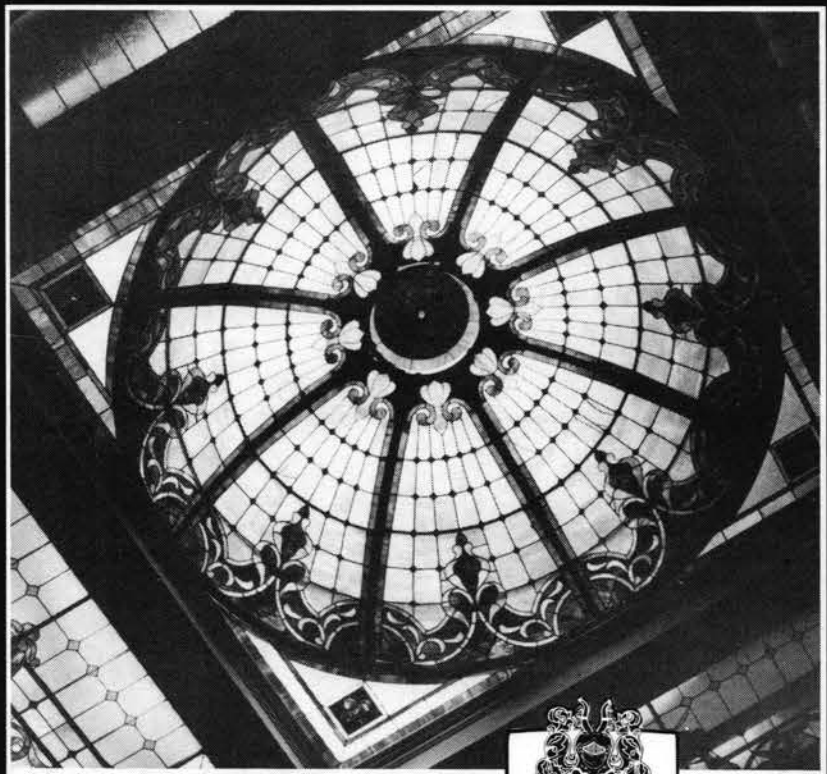


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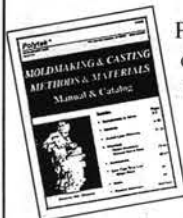
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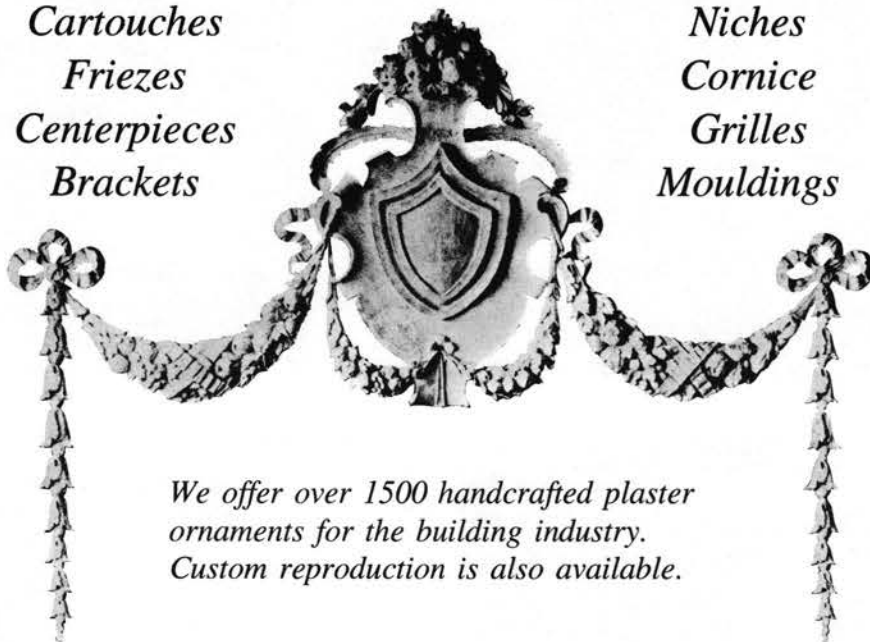
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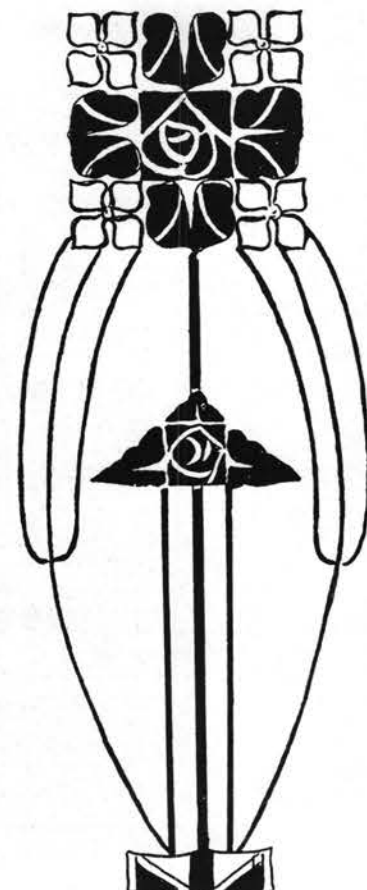
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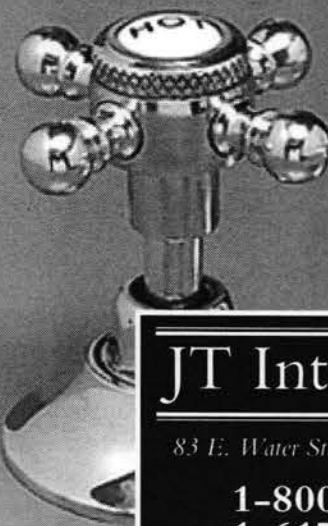
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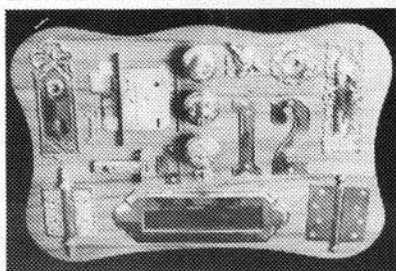
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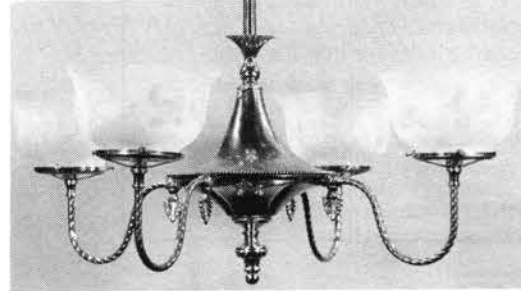
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We provide lots of ways for you to get product information from **TRADITIONAL BUILDING**. But we can't do much with requests like this one.

BY MAGNOLIA C. SHEPHERD, *Data Processing Supervisor*

About once a month, we get a call from one of our subscribers saying that he or she sent in a Product Information Card, and then never heard *anything*.

When this happens, I personally look into our data files to see if we processed the request. (We do all our data processing in-house, so this is a relatively simple procedure.) In 9 out of 10 of these cases, there is no record of ever having processed a card from the subscriber. This means either:

(1) The original card went astray in the mail; or

(2) The requester was one of those folks who carefully writes in the numbers of the brochures he or she wants — and then neglects to give us a name and address. In the case of the card shown right, for example, all we can tell from the postmark is that it was mailed from Santa Ana, Calif., on February 19.

So, at the risk of belaboring the obvious, if the product literature doesn't arrive when you expect it, please consider some of the above possibilities before deciding that we are utterly disorganized.

Four Ways To Get Information

We provide a number of ways to get additional information about products or services that appear in *TRADITIONAL BUILDING*. Because a number of questions about product literature have arisen in the past few months, the Editors kindly agreed to let me have some space to explain the operation of our product information system.

We have four ways you can get more detail about historical products described in our pages:

■ **Direct Phone:** If you want fast action, the best thing is to call companies directly. In every *SourceList* and product story, the Editors always provide a phone number.

■ **Direct FAX:** Another rapid contact mode is the FAX Form at the back of every issue (page 69 in this issue). We provide the FAX numbers of the leading historical product suppliers on top of the Form. In addition, the FAX numbers of many other suppliers are available right in their ads. Using the FAX Form offers several advantages: (1) It's a time-saver. You can Xerox and fill out the form *ONCE*, and then FAX it to as many companies as are relevant to your need; (2) You can FAX at any hour of the day or night; you don't have to waste time on the phone during business hours. (In fact, evenings and weekends are the best time to avoid busy signals on FAX lines.) (3) Your request gets rapid attention from the supplier.

■ **Product Information Card:** If you're not in a major hurry, the Product Information Card in each issue is the simplest and most economical way to request more information. The only catch: Postal service, computer processing, and supplier fulfillment may take 4 to 6 weeks from the time you drop the postcard in the mail until the requested literature arrives on your desktop.

■ **The Annual CATALOG:** The CATALOG puts at your fingertips 740 pages of pre-filed and cross-indexed product information from the leading suppliers of historical products. The editors make the annual CATALOG available on a professional courtesy basis to qualifying business locations. (Qualifying locations pay a \$12.95 shipping and handling charge.) Most offices keep the *TRADITIONAL BUILDING* CATALOG on their reference shelf right next to Sweet's... and consult the CATALOG first when a question arises about historical products.

I recently supervised the shipment of 1,200 1993 Catalogs to this year's qualifying locations. We build the list of qualified recipients via a detailed survey of our paid subscribers that we send out in January of each year. If you didn't get a copy of the 1993 CATALOG, and would like to be considered for the 1994 edition, you'll receive a qualifying application in January of next year. f: (1) You work in an office that does architecture, construction/contracting, or interior design; and (2) You're on our list of paid subscribers as of January 1.

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How The Product Information Card Works

I thought it might be helpful to describe what happens to the Product Information Card after you drop it in the mail, so that you'll better appreciate the time constraints in the system.

— Incoming Postcards are gathered into batches, and the names, addresses, and product information numbers are typed into the computer system.

— Every 10 days, we do a processing. The system prints out pressure-sensitive mailing labels for every piece of literature requested, grouped according to supplier.

— The long string of labels is broken apart in our mail room, and each batch is sent to the appropriate manufacturer.

— When the batch of mailing labels is received by the supplier, the label is affixed to a mailing envelope and the brochure is sent on its way to you.

It's a simple, inexpensive system for the reader — but you can see why it takes a while for the literature to arrive.

Other Reasons Literature May Not Arrive

Besides the no-name cards mentioned above, there are a couple of other common problems that will prevent your getting the product literature you requested:

(1) **ILLEGIBLE HANDWRITING** — It seems obvious, but a surprising number of cards arrive with the name and/or address partially illegible. We make the best guesses we can — but sometimes our best guesses aren't good enough to get the mail delivered.

(2) **EXPIRED POSTCARDS** — The harsh realities of postage and processing costs require us to put an expiration date on every postcard, after which the product information numbers from that issue are expunged from our computer system. So it's physically impossible to process expired cards.

If you come across an old issue... and there are product brochures you want to send for... instead of using the Product Information Card, just consult the Advertiser Index at the front of the issue. You'll find the page numbers for all the companies in that issue which had been assigned Reader Service numbers. Just write, call, or FAX those companies directly.

I hope these few comments make *TRADITIONAL BUILDING* even easier for you to use! ♦

THE ROOFS OF JEKYLL ISLAND



This issue features a listing of the leading suppliers of historic roofing materials. Here's the story of a property manager who has a use for almost *ALL* of those roofing products.

BY MARYANN ONDOVCSIK

Jekyll Island, located midway between Savannah, Ga., and Jacksonville, Fla., is a virtual showcase of residential architectural styles, running chronologically from 1898 to 1928. And according to the Superintendent of Historic Preservation for Jekyll Island Museum (a division of the Jekyll Island Authority), F. Warren Murphey, the Island is also a showcase of maintenance headaches.

Excedrin Headache #1 is roofs, which gnaw voraciously on the island's restoration and maintenance budget. The majority of roofs on the U.S.'s South Atlantic coast are covered today in standard fiberglass shingles. They're cheap and easy to install, but hardly suitable for the historic structures that make up the Jekyll Island Museum.

On the island's 33 historic structures, Murphey says he's counted 25 different roof materials and combinations, although they break down into three main categories: Wood shingles, ceramic tile, and metal. All three materials are costly to install and maintain — and the wood is relatively short-lived. Yet materials like Tidewater red cypress shingles, Ludowici ceramic tiles, and terne metal are critical to the historic integrity of these buildings. "This is a museum and we're trying to duplicate what was there originally," says Murphey. "If it were my own house, I'd probably make a different decision."

The expensive cypress wood shingles have become Murphey's own *bête noire*, because some roof areas have developed decay in less than a decade. "I'm at the point where I'm willing to look at other alternatives," he sighs. "I'm visiting other historic sites and even considering the possibility of switching to concrete shingles. They can provide the same approximate appearance . . . but then of course we have the question of weight." Up to this point, however, Murphey's belief that the texture of cypress is critical to the historic look has

resigned him to a more expensive solution for the sake of accuracy of the museum experience. "Museums are in the truth-telling business," he says.

HOW JEKYLL ISLAND CAME INTO BEING

The 240-acre island 60 miles south of Savannah was developed as a private hunting preserve after the Civil War by some of the nation's wealthiest industrialists, with names like Astor, Vanderbilt, Rockefeller, Baker, Morgan, Pulitzer, Teller, Goodyear, and Crane. In its heyday, it was said that 1/6th of the world's wealth could be found sitting around the dining table on Jekyll Island.

The club, limited to 100 members, retained architect Charles Alexander to design the Club House. Members then built their own "cottages," using such noted architects as Carrere & Hastings, Charles Alling Gifford, and David Adler.

Although Jekyll Island can now be reached by a seven-mile causeway from Highway 17, it was originally accessible only by boat, affording the millionaires the privacy they sought.

Compared to the palatial cottages in Newport, the Jekyll Island versions were small — averaging 7-9,000 square feet — and quite rustic in appearance. Paint analysis shows a partiality to natural browns and greens — quite appropriate for a hunting preserve, full of small game, boar and deer, as well as pheasants and quail bred in the off-season.

Alas, after World War II, the once-fashionable resort fell into a steep decline and in 1947, the state of Georgia intervened and bought the whole island for a pittance. The state was primarily interested in the island as a public park, given its beaches and golf courses and so they ignored the buildings, which inevitably began to decay.

Luckily, in the 1960's, the state began to take an interest in the structures. The Jekyll Island Authority courageously undertook a massive preservation project financed out of its own pocket. "They hired a retired civil engineer named Roger Beedle, who worked miracles. We have his journals and drawings. He did an admirable job — and remember, this was the early '60's, when Charleston was fighting its early preservation battles."

A private consortium spent \$20 million rehabbing the old Club House into a modern hotel, which is now operated by Raddison. The hotel became the impetus for a tourist industry that now includes 7 hotels, 350 private residences,



Currently under restoration, the Struthers/Macy Cottage, c. 1896, will require 62 squares of Tidewater red cypress shingles plus another 8.5 squares of terne-coated stainless steel.

tennis courts, marinas, picnic areas, and 7 miles of beach.

The island's main source of revenue is from golfers, although surveys have shown the primary draw is the beach, followed by the historic district. Several buildings, including Faith Chapel, with its signed Armstrong and Tiffany windows, have been restored, and tram tours are given of the historic area.

UP ON THE ROOF

But the buildings remain a continual challenge. Murphey's annual budget averages about \$320,000 for both maintenance and restoration. And, of course, there are those ongoing roof problems. He's already put new cypress shingles on the Rockefeller, DuBignon, and Mistletoe cottages. "We've installed about 220 squares of cypress in the past 9 years, but in some areas the insects and rot are taking their toll ahead of schedule."

The relatively short life of the expensive handmade cypress shingles (\$800 per square installed, including felt, flashing, etc.) is a major drain on a budget that still has to deal with curatorial concerns like air filtration, ultraviolet screening, lead abatement, and low-VOC paint.

Among other things, Murphey has had to re-engineer the way the cypress shingles are installed. "You must have good air flow under the shingles so they will dry after a rain. The original roof system was fine. There was no sheathing; furring was applied to the rafters and shingles were nailed to the furring. But during the '60's, they filled in the spaces between the furring strips to create solid decking. But this restricted air flow."

Murphey is now re-creating the original system. "We're putting waterproof members with new furring on top of the decking to reestablish good airflow. The problem is that this changes the roof height, which is especially noticeable at the dormer windows. But if you don't have good airflow, decay is sure to follow."

Then, of course, wood roofs raise the subject of fire protection, a serious concern on an island with a lot of lightning. Murphey's approach has been to use a topical application of a fire retardant every few years, pointing out that in a serious fire no roof is safe.

"We're concerned with sparks flying off a palm tree that's been struck by lightning. The trick is making the roof retardant enough to give you 35 seconds for a spark to die." He also notes that most roofs are below the canopy of trees, and taller structures — like the chapel — have lightning protection.

An additional problem is the low pitch of many of the roofs. "Some have a pitch of only 3-1/2" per foot, which is marginal at best. The steeper the pitch the better, because the wood shingles shed water faster. Unfortunately, in this particular situation, the builders didn't think about roof longevity. They were just after a certain look; the structures were not intended to be heirlooms."

JEKYLL ISLAND'S METAL ROOFS

Terne metal roofs are even more expensive than cypress — and Jekyll Island has its share of those as well. Murphey estimates a terne metal roof runs him \$1,200 a square, installed. "And as Hurricane Hugo has shown, a high wind will take them right off. It doesn't matter how it's fastened or how good the code compliance is. A 100 m.p.h. wind can rip off a metal roof like the lid off a tin can."

Unlike the relatively short-lived cypress shingles, terne metal roofs are known for their durability. But they present other problems. Metal expands and contracts in the southern heat more than adjacent walls and gutters, creating joint problems. Also, many of the metal roofs are flat, causing drainage difficulties. "Even if the original design called for a perfectly flat roof, I will alter that to create a slight pitch, even if it's just 1/4" per foot," he says. "There is no way to justify a dead flat roof; it will leak no matter what miracle product you put up there."

Murphey uses terne-coated stainless in all areas that originally had terne applications. This greatly increases longevity and reduces maintenance, but slightly increases the difficulty of soldering. "Soldering using a hand iron is not part of a standard roofer's repertoire anymore. It may be a fading art, like plastering and fine brick work. Soldering stainless, even coated with terne," he observes "is a little trickier than plain terne metal."

THE TILE ROOFS

The third type of roof on Jekyll Island is ceramic tile. This is certainly the most durable, but also quite expensive. It can also be described as a 'local' product, because the first Ludowici tiles were produced in Ludowici, Georgia, about 40 miles away. The company eventually opened five plants across the country, including one in the Chicago area which produced the premium high-iron tile used on the Crane Cottage.

This "cottage," designed in 1911 by David Adler, created a big flap at the time. The tradition was for Jekyll Island houses to be simple and rustic. Suddenly, there was a 16-bedroom home — with a bathroom for every bedroom. Not surprising, it was built by Mr. Crane, president of Crane Plumbing!

This Mediterranean-style house featured whitewashed brick walls, a clay tile roof, and thick kelly-green shutters. "The roof tiles were small, tapered mission tiles with two glaze applications. The first was a coral color and the next had a flecking of whitish-green, so it took on a greenish tinge." When this roof needed to be repaired, a number of experts searched the Ludowici records



Designed in 1911 by David Adler, the Crane Cottage (built for the Crane plumbing family) sported a then-unheard-of 16 bathrooms. The roof, shown here before the extensive 1992 renovation, is made from small tapered custom-manufactured Ludowici mission tiles.



Early houses on Jekyll Island were based on designs from the north, which didn't function well in the island's southern climate. But the Porter-Clafin Cottage, c. 1912, shows the long windows and wrap-around porch so necessary in a sub-tropical climate. The house was restored in 1989-90, using 54 squares of Tidewater red cypress.

in vain for this tile. "So it's a fairly safe guess it was custom-made to go with the green shutters," he says.

Since Crane Cottage is now the Administrative Building, it precipitated major distress when the roof started to leak. "We did a patch job two years ago, but it was time for serious work on that roof," Murphey says. Estimates from local tile contractors were in the neighborhood of \$250,000.

As an alternative, Murphey called upon Tile Roofs, Inc., of Belvidere, Ill. "Mary Raleigh flew down from Chicago to take a look, then worked out an arrangement to send a foreman and two of her workers to provide technical assistance. My crew worked under their supervision," he says.

Another economy was to order a minimum of new tile — "Mary helped me determine how much" — and repair the roof using existing tile. For additional savings, the eight square of new tile were ordered without the flecking. "The new tile cost us about \$1,800 a square and it could have been twice that with flecking." However, the base color is a good match and it was installed in an inconspicuous place. "We put it on the loggia where it'll be easy to get to if we can ever afford to replace it with the flecked variety."

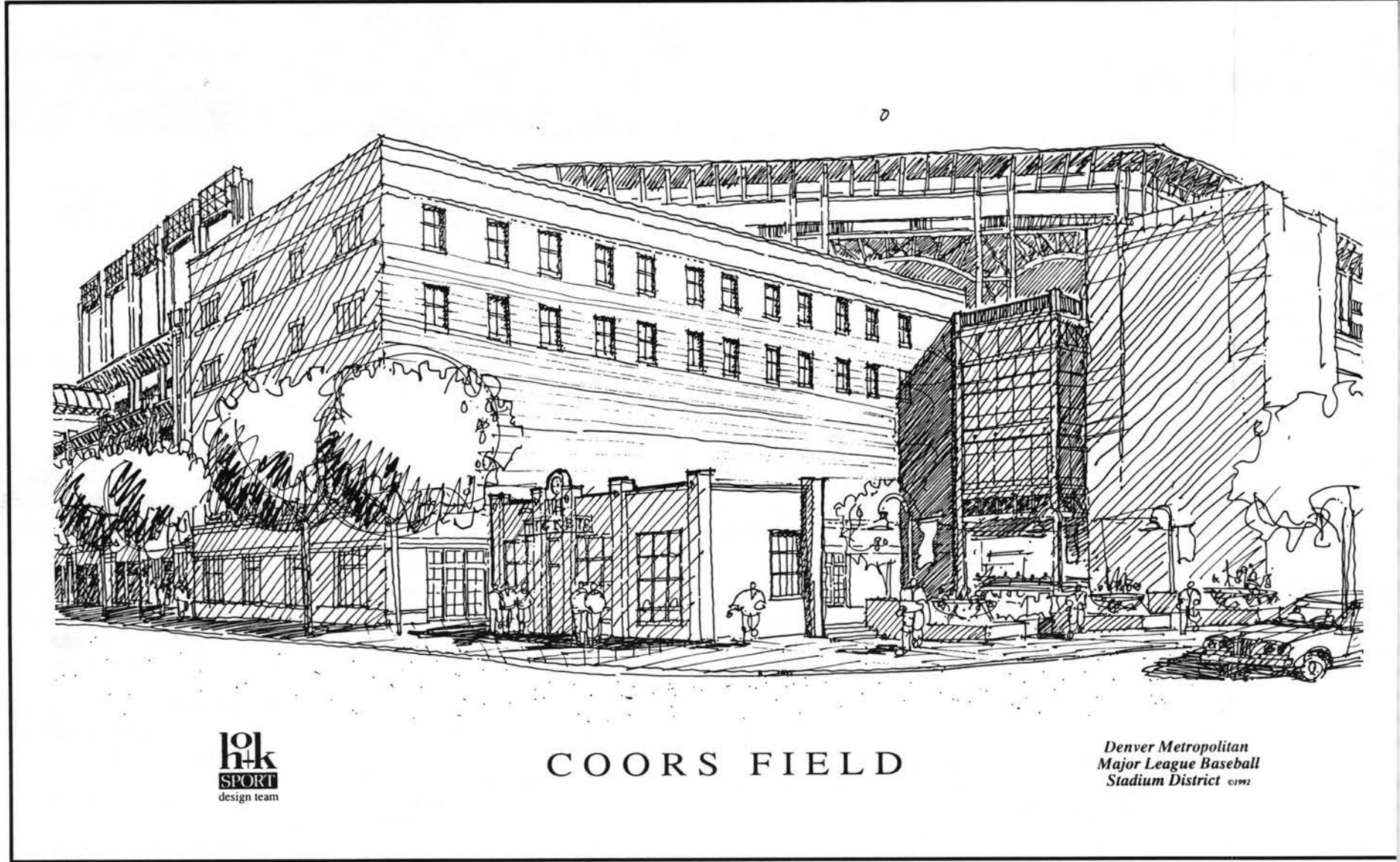
The work started Nov. 7 and finished Dec. 28. During that time, 126 squares of tile were removed and cleaned, the roof substrate cleaned and repaired with a new underlayment, and new battens, gutters, and flashings installed. Three flat copper roof surfaces were also re-fabricated and installed.

This was a new experience for Murphey and his crew, who were more familiar with wood roofs. "When you work with wood, 30% of the time you have to cut shingles to fit. But you're not supposed to cut tile. We learned that the secret of a good tile installation is in the layout. If you prepare properly, there's not too much to it," Murphey says. The job came out well. "We've had a lot of rain recently and there's been no problem. We're as delighted as we can be." After having to deal with so many other headaches, Murphey deserves a resounding success! ♦

COORS FIELD
continued from page 4



What Denver's ballpark might have been: Orioles Park at Camden Yards, also by HOK Sport, opened April 1992, imitates historic stadiums with its grass field and rooflessness. The former B&O Warehouse forms the right field backdrop and contrasts with the skyscrapers of downtown Baltimore.



What will happen to the gas station on the site: It will be moved a few blocks, its white-paint-encrusted brick skin and neoclassical ornament will be scrubbed, its bays filled with windowpanes, and its gasoline offerings replaced by baseball-game tickets. (Drawing courtesy HOK Sport)

How It All Began

Embarrassed by being located in the nation's only major-league-baseball-free time zone, Colorado passed a .1% baseball tax in 1990 to support stadium construction. A major grant from Coors further spurred the project, and under the auspices of the clumsily named Denver Metropolitan Major League Baseball Stadium District, HOK developed a design for an extremely sensitive site: North Downtown, a slowly gentrifying oasis of warehouses. Spared urban renewal by just a few blocks, the district contains a cheerful mixture of design offices, brew pubs, loft housing, and decades-old manufacturers and wholesalers with names like Denver Barrel & Drum and H Bar C Ranchwear.

HOK's original plans called for a somewhat frou-frou'd postmodern stadium skin, outright destruction of all buildings on site, and few street-enlivening storefronts. Denver citizens objected to the design's anti-neighborhood stance; committees formed; and HOK flexibly changed its ways (as befits a firm responsible for both the forbidding Comiskey Park in Chicago and for Camden Yards, which is walled by sidewalk-pleasing see-through archways and by an eight-story 1905 railroad warehouse along one full facade). The city, too, responded fairly gracefully to public concerns, imposing a neighborhood-wide demolition moratorium (which unfortunately was allowed to lapse for two weeks last fall, leading to four more lost buildings and lessened chances of a National Register Historic District listing; the moratorium lapses again this May.)

How Compromises Ensued

Working with the new committees of preservationists and other activists, HOK finally settled on a scheme that tries to please everyone. The skin is flat brick with some corbelling and some stone trim, to suit the low-key neighbors. It abuts the sidewalk on two sides (the other sides face rail yards), and at the sidewalk it features storefronts containing such year-round attractions (baseball will only be played 81 days annually) as gift shops and a rather premature Rockies museum. And the skin reaches only 40 feet tall on its street sides, thanks to the hilly site, with a lacy tier of bleachers filled with old-fashioned green seats visible just above the skin's top ridge.

To create this quaint vision, nine vintage warehouses were lost, one of them graced with elegant neoclassical medallions and garlands. (Known as the Purox Building, it was not totally destroyed but dismantled and set aside for potential reconstruction elsewhere, someday.) HOK sensibly argues that it could not build around or on top of the row — the structures were too low, unlike the warehouse at Camden Yards, and they posed fire-code and disabled-access problems — nor could it build behind: It would spoil the ball park's potentially lively street wall.

So all that will endure are Union Pacific Railroad's 1920s "headhouse," a long storage shed with a bank-like becolumned facade; a 1934 one-story

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gas station, with neoclassical medallions at the cornice of its brick facade; and an utterly plain late-19th-century five-story warehouse, now the home of a firm called Student Movers. The headhouse will be left freestanding at one ball-park corner, and no one knows yet how it will be used (just like the 1865 train station at Camden Yards, which accommodates only the occasional party). The gas station will be moved to a ballpark corner and dolled up as a ticket booth. And Student Movers will stand barely visible as a section of the ball park's brick facade, home for mechanical equipment and a restaurant.

In short, the design has ended up downright confused, an obvious product of our still-ambivalent attitude toward the most vernacular of vernacular. "It's a compromise, and sometimes compromises do look like jackalopes," says Dana Crawford, the impassioned local developer responsible for saving such stellar Vic-

toriana in Denver as Larimer Square.

What All This Bodes

Some Denver observers fear that Coors Field could set back the preservation and traditionally-minded new-construction movements by years. The irreverent incorporation of the Student Movers bulk, says local landscape architect William Wenk, "was almost an insult." Landscape architect Larry Gibson describes the Student Movers-preservation process as "sort of like, 'here, we'll save something,' so they saved the worst-looking one." Don Etter, former co-director of Denver's Parks and Recreation Dept., calls Coors Field "part of our throwaway society," since an all-concrete modernist stadium on Denver's outskirts remains barely utilized (and offers acres of on-site parking, unlike North

Downtown's soon-to-be-possibly-overwhelmed streets).

Yet there's an undeniable chance that North Downtown could benefit from proximity to a ball park. Neighborhood activist Karle Seydel regrets the nine structures lost ("they could have been a beautiful forecourt to the stadium," he sighs), yet he happily reports a small frenzy of renovation activity by owners enthused about selling refreshments, chotchkes or even housing to baseball fans. "This has been absolutely forgotten Denver, totally unexplored," he exults. And will it be worth the sacrifice? Will more good than harm come to North Downtown? Kathleen Brooker, head of Historic Denver, muses, "There are certainly things I would have liked to have seen done differently, but overall there's such a positive feeling about having baseball downtown, making it an integral part of downtown — let's call my outlook, 'guarded optimism.'"❖

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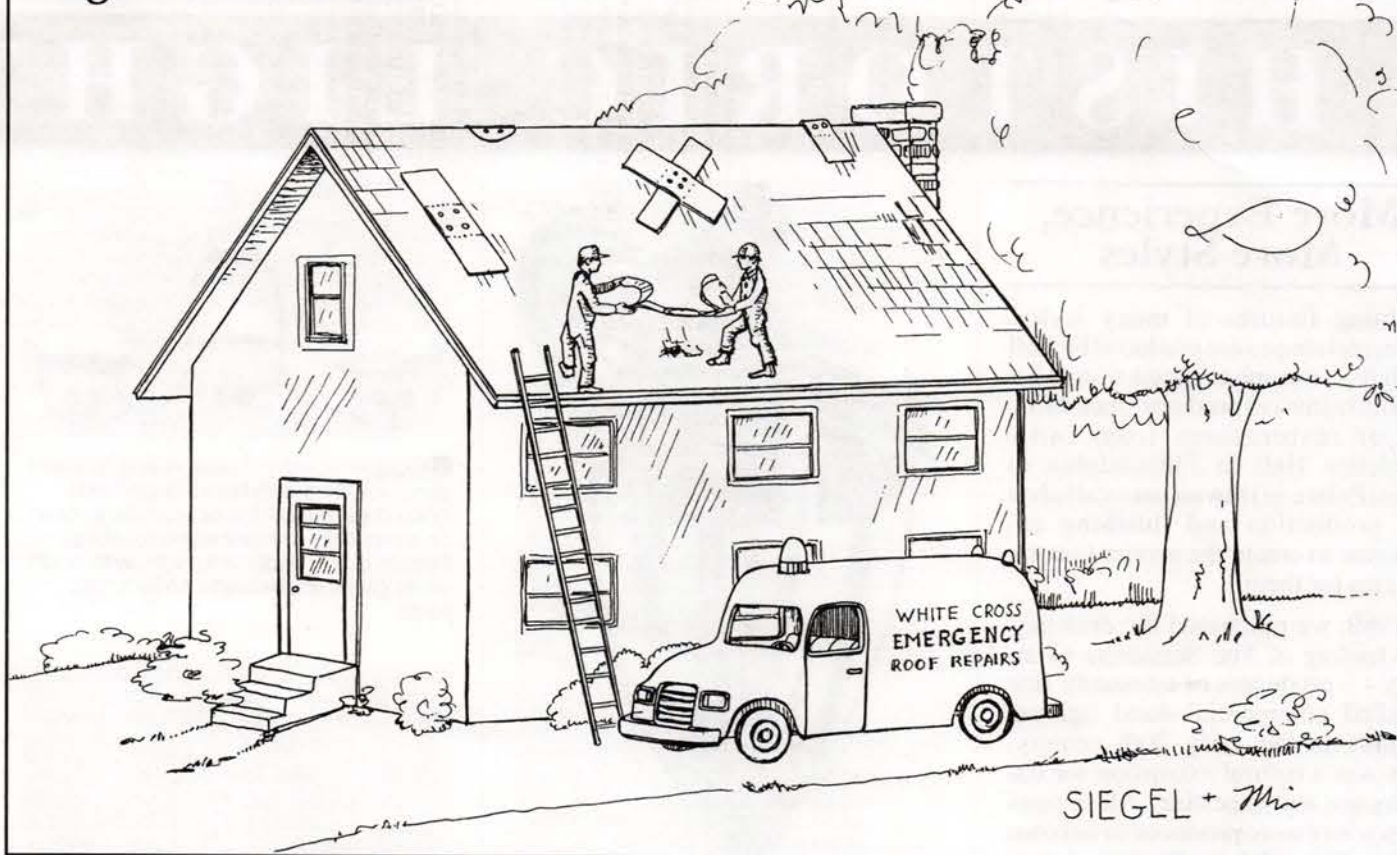
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■ Frank Lloyd Wright designed this cast iron fixture for his 1905 renovation of The Rookery Building in Chicago. Ball & Ball was asked to renovate the 10 original units — and supply 6 new ones to match. The pattern in the fixture matches the rest of the iron lace in the building. A 19" square cast iron, brass-plated canopy trails 8 cast brass chains, 6 ft. long, supporting a 30" square main body, which in turn holds 4 corner globes and a central globe over and under the main body.



■ Early 20th century hallway lighting by The Steinmetz Co. for the U.S. Capitol, Washington, D.C. Ball & Ball had all the original drawings on hand to produce two additional lights to match the originals. (This fixture is just one of many that Steinmetz produced for government buildings in Washington.) Main body is spun brass, 32" dia., fitted to cast brass border supporting lost-wax-cast lion heads that hold 6 electrified arms. Overall dia. 5 ft. Exact copies, larger, or smaller versions of this lamp are available on special order.



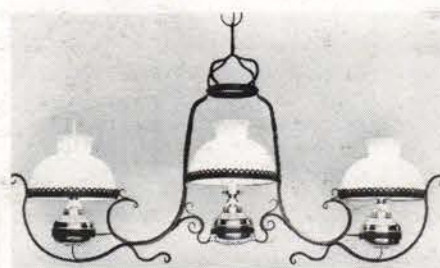
■ Wall-mounted exterior light, 20" high and 13" across, produced from original Steinmetz Co. drawings. Hex-shaped cap, body, and base are made from cast brass. Glazing can be bent, hand-blown glass, or shatter-resistant plastic. In addition to exterior lighting, applications for this light include accent lighting for showrooms and passage lighting for corporate offices.



■ Lighting fixture made by The Steinmetz Co. to hang in a lower level hall of the U.S. Capitol. Made of cast brass, spun brass, and fluted brass tubing, it features etched glass on all 6 sides and bottom. It is 22" high to the column top, 19" across. Center of the bottom is hinged for bulb changing.



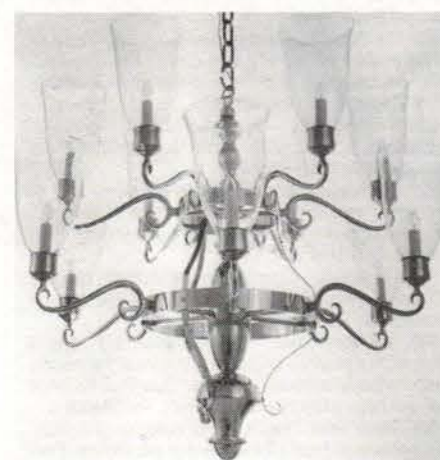
■ Argand Lamp, c. 1800, reproduced for a restoration in Barbados. The fixture, 20" in diameter and 40" high, is cast, sheet, and spun brass with hand-blown glass. As pictured, the fixture has been adapted to accommodate 2 electric candles.



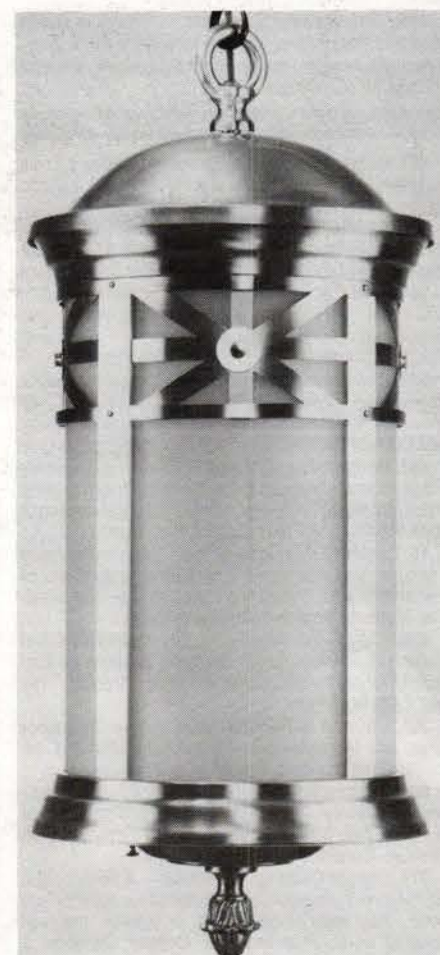
■ Custom lighting fixture made to client specifications with hand-forged iron body (rather than the brass tubing seen on most 19th-century reproductions). Fixture is 5 ft. wide, 3 ft. high, with 3 12" white glass shades and spun brass founts.



■ Wall sconce, c. 1835, cast brass with hand-blown glass. Fixture is 28" high and 14" wide.



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