

MAY 2011 / VOL 101 NO 5
US \$7 CAN \$9

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN
SOCIETY OF LANDSCAPE ARCHITECTS



WEST 8

Its musical new park in Miami Beach

SYDNEY'S HARBOR VIEW

Ballast Point Park, up from the rubble

THE POSTERITY PROBLEM

Where should designers' archives wind up?

A TRUE BLUE RIDGE PARKWAY

The drive for safe but scenic mountain roads

*harmonious
proportions*

~

symmetry

~

clarity

~

repose

~

beauty

~

simplicity

~

sustainability

~

convenience

Design: DCA Landscape Architects, Inc., Washington, District of Columbia.

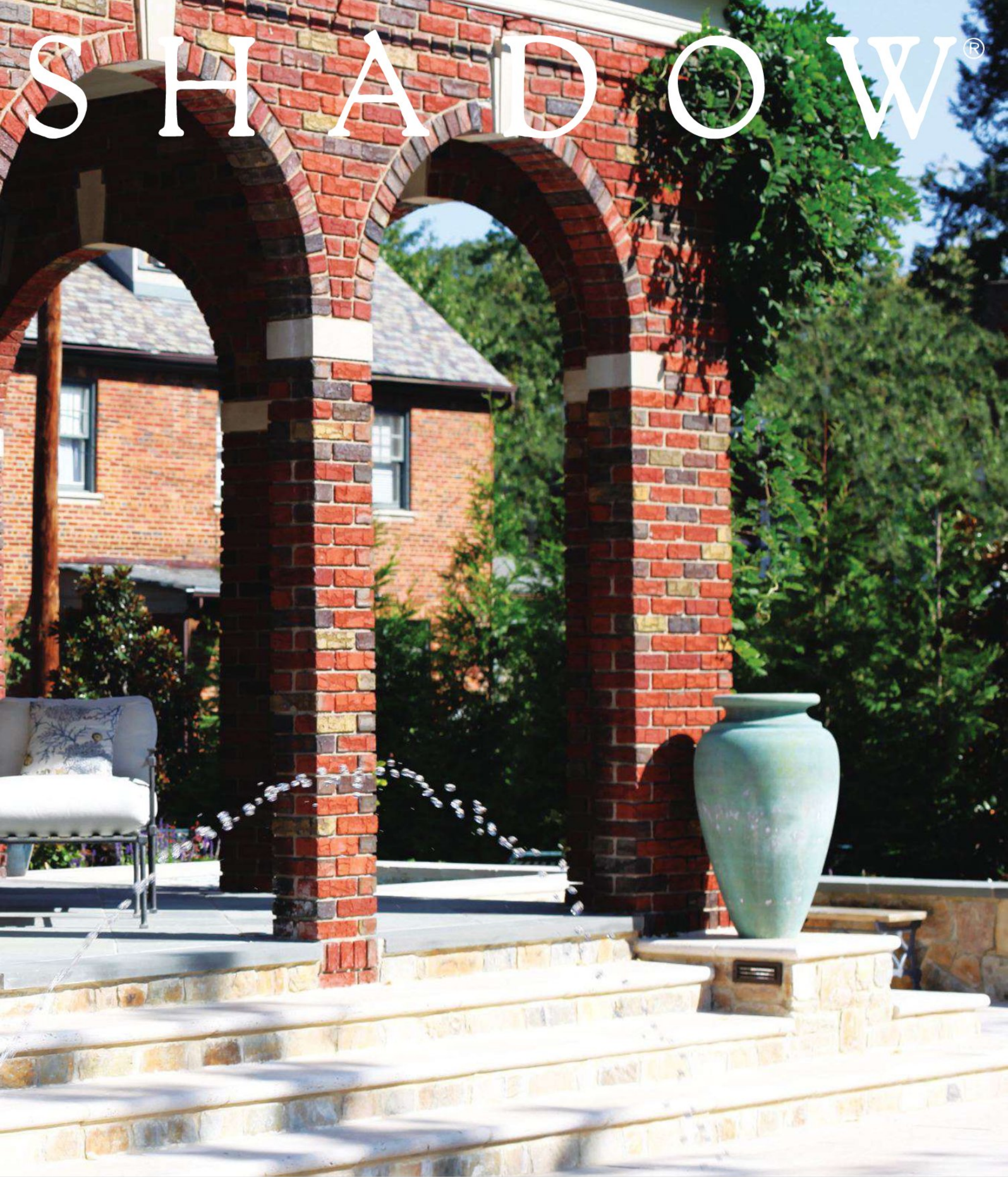
LONG

Manufactured in Illinois, U.S.A. by
Classic Garden Ornaments, Ltd.®



download CAD drawings at
LONGSHADOW.COM

CAD drawings provided by
 CADdetails



SHADOW®

landscapeforms®



35 Collection
designed by frog design





Integrated Site Furniture Solutions for Creating a *Sense of Place*.

800.430.6205 | landscapeforms.com

CIRCLE 126 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-126](http://INFO.HOTIMS.COM/34634-126)



6TH ANNUAL

dwell

ON DESIGN

A THREE-DAY CELEBRATION
OF MODERN DESIGN

**JUNE
24-26
2011**

LOS ANGELES
CONVENTION CENTER

AN EXCITING MIX OF
PRODUCTS, PROGRAMMING,
AND PEOPLE!



- 200,000 sq. ft. of innovative modern products and sustainable design from around the world
- 150+ speakers across two stages including notable designers and industry leaders
- Dwell Outdoor featuring multiple PreFab homes and countless landscape ideas
- Modern Home Tours on LA's Eastside and Westside over two weekends
- AIA Restaurant Design Awards celebration
- Continuing Education Credits
 - AIA, ASID, Sustainable Furniture Council

REGISTER TODAY
DWELLONDESIGN.COM

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN
SOCIETY OF LANDSCAPE ARCHITECTS

LAM

14 LAND MATTERS

18 LETTERS

FOREGROUND

26 NOW

The online trade in endangered plants is robust; a million bucks buys the National Arboretum's azaleas a reprieve; contentious new guidelines emerge for wind farms' birdworthiness; a federal judge says a garden is not a text for copyrighting; and more.

EDITED BY LINDA MCINTYRE

40 SPECIES

This month: The incredible shrinking ginkgo, asparagus's aftermarket as a feathery hedge, and a beetle that is no friend to viburnums.

BY CONSTANCE CASEY

50 GREEN ROOFS

Native Analogues

Each of three green roofs by Kestrel Design Group in Minneapolis has its own kind of difficulty but resolves it with plantings that mimic kindred wild landscapes in the region.

BY ADAM REGN ARVIDSON, ASLA

62 WORKSTATION

Cloud Control

Cloud computing is growing more reliable and cost effective. One day soon, your data storage may dematerialize completely.

BY JAMES L. SIPES, ASLA

76 GOODS

Bright Lights, Big Impact

When night falls, outdoor spaces can be forbidding or welcoming, and the right lights make the difference.

BY LISA SPECKHARDT

78 HOUSE CALL

Rhapsody in Blue Glass

An intriguing gabion wall filled with hunks of watery glass becomes the spine of a Dallas garden designed by David Hocker, ASLA.

BY MIMI ZEIGER



“IT WAS A CONTINUAL PROCESS OF DISCOVERY.”

—PHILIP COXALL, LANDSCAPE ARCHITECT, ON THE DESIGN OF BALLAST POINT PARK, P. 112

FEATURES

96 SURROUND SOUND

The first completed U.S. project by West 8 is a park in Miami Beach for the New World Symphony's new concert hall, and it offers a sonic immersion that rivals that of the seats inside.

BY JOHN GENDALL

112 ON THE ROCKS

Ballast Point Park, overlooking Sydney's harbor, offers redress for generations of polluting and pulling everything possible out of a site.

BY GWENETH NEWMAN LEIGH,
INTERNATIONAL ASLA

128 FILE UNDER FOREVER

Among the last things landscape architects tend to consider is where to leave their archives. But it's not a good idea to put it off, because the future of the past is at stake.

BY ERNEST BECK

THE BACK

138 SKY ART

The artist Nancy Holt, who works with land, film, and video, is the subject of a new book and retrospective exhibition.

142 ON GUARD

Preserving the views along the Blue Ridge Parkway in recent years has taken a finely calculated approach to deploying roadside safety walls and railings.

BY MARK HOUGH, ASLA

150 BOOKS

176 DISPLAY AD INDEX

178 BUYER'S GUIDE INDEX

194 FORWARD

The Groundwork Ahead

Why Congress needs to pass a green infrastructure bill.

BY DONNA F. EDWARDS

IMAGE CREDIT

Brett Boardman



T1105A5000

TRUSTED BY ARCHITECTS & DESIGNERS FOR OVER 30 YEARS

COUNTRY CASUAL®

Teak Garden & Site Furnishings

Request a catalog: 800.284.8325 or www.CountryCasual.com

CIRCLE 55 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-55](http://INFO.HOTIMS.COM/34634-55)

INTRODUCING

SWINGERS



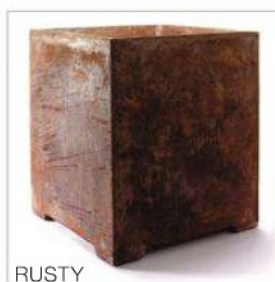
TARA

Bring high style to your indoor and outdoor environments with these dandy lightweight resin planters.

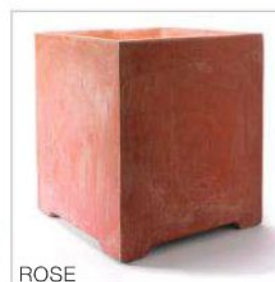
SWINGERS are full of personality and capability. They hold trees, water, you name it all while lookin' fab.



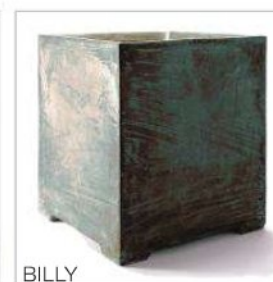
ROCK



RUSTY



ROSE



BILLY



BLANCHE

Designed by Christopher Myers, ASLA.
Made in New York, USA. Shipped anywhere.
justterraces.com/swingers or 212.570.4830

JUST
TERRACES®

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN
SOCIETY OF LANDSCAPE ARCHITECTS



ON THE COVER

Miami Beach SoundScape,
designed by West 8,
page 96.

IMAGE CREDIT

Robin Hill for West 8

EDITOR

Bradford McKee / bmckee@asla.org

MANAGING EDITOR

Lisa Speckhardt / lspeckhardt@asla.org

ART DIRECTOR

Christopher McGee / cmcgee@asla.org

WRITER/EDITOR

Daniel Jost, ASLA / djost@asla.org

ASSOCIATE EDITOR

Lisa Schultz / lschultz@asla.org

CONTRIBUTING EDITORS

Jane Roy Brown; Lake Douglas, ASLA;
Diane Hellekson, ASLA; Peter Jacobs, FASLA;
Frank Edgerton Martin; Linda McIntyre;
E. Lynn Miller, FASLA; James L. Sipes, ASLA;
Kim Sorvig; James Urban, FASLA

PLEASE E-MAIL COMMENTS TO THE APPROPRIATE
STAFF MEMBER OR SEND VIA U.S. MAIL TO 636 EYE
STREET NW, WASHINGTON, DC 20001-3736

EDITORIAL ADVISORY COMMITTEE

Barbara Faga, FASLA / Chair
Mark A. Focht, FASLA / Vice President,
Communication
Beryl Allen, ASLA
Brian Braa, ASLA
Sara A. Hage, Associate ASLA
Safei Eldin Hamed, ASLA
Gary Hilderbrand, FASLA
Mark Hough, ASLA
Todd D. Johnson, FASLA
Keith LeBlanc, ASLA
Barbara Nazarewicz, Student ASLA
Pam King Phillips, Student Affiliate ASLA
Stephanie A. Rolley, FASLA
Barry W. Starke, FASLA
Rodney L. Swink, FASLA
Annette P. Wilkus, ASLA

EDITORIAL

Tel: 202-216-2366 / Fax: 202-898-0062

LANDSCAPE ARCHITECTURE MAGAZINE IS ALSO
AVAILABLE IN DIGITAL FORMAT. ORDER THROUGH
WWW.ZINIO.COM/LAM OR BY CALLING 1-888-999-
ASLA (2752).

PUBLISHER

Ann Looper Pryor / alooper@asla.org

ADVERTISING SALES

202-216-2335

SENIOR SALES MANAGER

Daryl Brach / dbrach@asla.org

SALES MANAGER

Abby Singer Klar / aklar@asla.org

SALES MANAGER

Tammy Workman / tworkman@asla.org

SALES SPECIALIST

Vivian Thompson / vthompson@asla.org

PRODUCTION

PRODUCTION MANAGER

Shelly Neill / sneill@asla.org

MARKETING

MARKETING MANAGER

Susan Apollonio / sapollonio@asla.org

SUBSCRIPTIONS

REPRESENTATIVE

Monica Barkley / subscriptions@asla.org

REPRINTS

800-259-0470

BACK ISSUES

800-787-5267

Landscape Architecture Magazine (ISSN 0023-8031) is
published monthly by the American Society of Landscape
Architects, 636 Eye Street NW, Washington, DC 20001-
3736. Periodical postage paid at Washington, D.C., and
additional mailing offices. Postmaster: Send address
changes to *Landscape Architecture Magazine*, 636
Eye Street NW, Washington, DC 20001-3736. Publica-
tions Mail Agreement No. 41024518. Return undeliver-
able Canadian addresses to PO Box 503 RPO, West
Beaver Creek, Richmond Hill, ON L4B 4R6. Copyright
2011 ASLA. Printed on recycled paper. Subscriptions:
\$59/year; Canada and international: \$99/year; stu-
dents: \$50/year; digital: \$44.25/year; single copies: \$7.
Mexican or Canadian addresses have a \$20 postage
surcharge; other international addresses have a \$50
postage surcharge. Nine percent of ASLA membership
dues is for magazine subscription.

Landscape Architecture Magazine seeks to support a
healthy planet through environmentally conscious pro-
duction and distribution of the magazine. One hundred
percent recyclable polywrap is used to protect the
magazine from damage during distribution.



ASLA BOARD OF TRUSTEES

PRESIDENT

Jonathan Mueller, FASLA

PRESIDENT-ELECT

Susan M. Hatchell, FASLA

IMMEDIATE PAST PRESIDENT

Gary D. Scott, FASLA

VICE PRESIDENTS

Edward G. Czyscon, ASLA
Mark A. Focht, FASLA
Richard S. Hawks, FASLA
Stephanie V. Landregan, FASLA
Gregory A. Miller, ASLA
Vaughn B. Rinner, ASLA

EXECUTIVE VICE PRESIDENT

Nancy C. Somerville, Honorary ASLA

SECRETARY

Mary L. Hanson, Honorary ASLA

TREASURER

Michael O'Brien

TRUSTEES

Robert J. Alter, ASLA
Caron N. Beard, ASLA
Hunter L. Beckham, ASLA
Donald E. Benson, ASLA
Andrew C. N. Bowden, ASLA
Travis G. Brooks, ASLA
Dean A. Chambers, ASLA
Ryan C. Collins, ASLA
Lynn M. Crump, ASLA
David Cutter, ASLA
Bruce John Davies, ASLA
Tamas Deak, ASLA
Christopher J. Della Vedova, ASLA
Thomas R. Doolittle, ASLA
Susannah Drake, ASLA
Robert J. Golde, ASLA
Keven L. Graham, ASLA
Christopher Green, ASLA
Michael G. Hasenmyer, ASLA
Alan D. Hoops, ASLA
Scott L. Howard, ASLA
Fredrick S. Howell, ASLA
Gregg W. Hudspeth, ASLA
Ron M. Kagawa, ASLA
Andrew Kaufman, ASLA
Christopher Kent, ASLA
Lisa A. Kunst Vavro, ASLA
Matthew D. Langston, ASLA
Pamela J. Linn, ASLA
David L. Lycke, ASLA
Daniel W. McElmurray, ASLA
Michael P. McGarvey, ASLA
Jack R. Phillips, ASLA
Stephen P. Plunkard, FASLA
Jolene Rieck, ASLA
Eric R. Sauer, ASLA
Horst Schach, FASLA
Glen Schmidt, FASLA
Colgate M. Searle II, FASLA
Stephen A. Shurtz, ASLA
Scott L. Siefker, ASLA
Michael S. Stanley, ASLA
Mark Tabor, ASLA
Jeffrey A. Townsend, ASLA
Mark Vlasic, ASLA
David H. Walters, ASLA
Vanessa Warren, ASLA
Dana K. Worthington, ASLA

LAF REPRESENTATIVES

Barbara L. Deutsch, ASLA
Kathleen A. Garcia, FASLA

NATIONAL STUDENT REPRESENTATIVE

Barbara Nazarewicz, Student ASLA

PARLIAMENTARIAN

Donald W. Leslie, FASLA



A FAMILY AFFAIR



Pure and simple in form, the Knight Family combines understated refinement, superb construction and high-performance green materials.

The family includes backed and backless benches in 6' or 8' lengths, a litter receptacle, lighting and security bollards, and pedestrian lighting fixtures. Rustproof aluminum and FSC Pure Ipé hardwood ensure long-lasting beauty and durability. All products have a high recycled content and high recyclability. A truly functional family, Knight's integrated designs can be used to create a unified look across a project and make Knight an excellent choice for a wide range of settings.

TO SCAN AND READ
THE MOBILE BARCODE
AT RIGHT, DOWNLOAD A
QR-CODE READER TO
YOUR MOBILE PHONE



FORMS+SURFACES®

offices worldwide | 800.451.0410 | www.forms-surfaces.com



Member of the USGBC | Member of the EGBC | LEED® Accredited Professional on Staff
FSC Certified Supplier | SCS-COC-001461 | © 1996 Forest Stewardship Council A.C.



Sign up for F+S new product announcements at www.forms-surfaces.com/news

CIRCLE 325 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-325](http://INFO.HOTIMES.COM/34634-325)

More at magazinesdownload.com or ebook-free-download.net



*visit
extremis.be
to discover
more tools for
togetherness*

FOR THE OUTDOOR FURNITURE SPECIALIST NEAR YOU CALL 1-212-444-9937

Dealership Opportunities Available US and Canadian Agent - Nova Distribution, LLC. - info@nova-distribution.net

INFO@EXTREMIS.BE

WWW.EXTREMIS.BE/CATALOGUE

CIRCLE 479 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-479](http://INFO.HOTIMS.COM/34634-479)

SIMPLE TO **CLEAN**.
SIMPLY BEAUTIFUL.

Sunbrella® is a registered trademark of Glen Raven, Inc. Richard Finner chair by Century Furniture, LLC.



Its beauty, undeniable. Its cleanability, unmatched. Sunbrella® performance fabrics set the standard for ease of cleaning. Your customers will no longer have to worry about spills or stains in any room – indoors or out. Insist on Sunbrella with hundreds of fade-proof colors, patterns and textures, all backed by a 5-year warranty. For more information, call Glen Raven Customer Service at 336.221.2211 or visit www.sunbrella.com/cleaning.

OUTDOOR FURNITURE - INDOOR FURNITURE - WINDOW TREATMENTS - AWNINGS - UMBRELLAS



Use your smartphone QR code reader to learn more.

 **sunbrella®**

CELEBRATING
50 YEARS

CIRCLE 33 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-33](http://INFO.HOTIMS.COM/34634-33)

More at magazinesdownload.com or ebook-free-download.net

THE HOPE OF LESLIE KNOPE

Seeing as everybody is cutting funding for parks these days as if they were art or gym classes, I say thank heaven and Hollywood for Leslie Knope. Knope is the terminally optimistic deputy parks director in the real-but-not town of Pawnee, Indiana, played by Amy Poehler on the NBC series *Parks and Recreation*. She fights for park space, for parks' funding, and for fun public programs, like the time she accidentally married two male penguins at the zoo and all heck broke out. She represents everything good about civic life.

Because Knope is such a natural and at times naive advocate for parks, I'm pleased to report that the show, ending its third season this month, has been renewed for a fourth. Right now, cities and states, not to mention the federal government, are deflating their aspirations along with their budgets, and parks need all the champions they can get.

In California, Governor Jerry Brown, looking at a \$27 billion state budget deficit, says he's going to cut the state parks budget by \$22 million in two years and close a bunch of the state's 278 parks to make it happen. Texas is also a mess, with a deficit just about the size of California's, thanks in part to the recession and in part to a refusal to tax realistically. The Texas House of Repre-

fix in the next budget. Hundreds of people showed up to oppose a plan by the mayor, Jeffrey Lamarand, to close the city's recreation center by July; things got fiery when one resident rose to say that he and others would be willing to pay more to use the center if only the city leaders would consider a new funding approach. The crowd, including many retirees, erupted in applause.

This is, as Leslie Knope says, "where the rubber of government meets the road of actual people." Back in Pawnee, she has been dealing with this same problem, as the show's creators are definitely doing their homework out in the real world. Knope has all the usual problems of a parks manager—a drunk stuck in the playground slide, a socialite who removes a historic gazebo for a party, a fake mugging, gift limits, and the drama around Lot 48, where a developer went bankrupt after breaking ground and Knope wanted to build a park. But she also deals with an insolvent city that needs budget cuts of 50 percent across the board, and a lazy, libertarian boss who would put the parks department out of business completely and privatize the system (though by then, he'd be on to serving as city manager, good libertarian that he is).

Between seasons two and three, the city of Pawnee shut down for three months. The residents, of course, were outraged, but Knope seems to love few things more than a hostile audience, or "people caring loudly at me." Rather than throw her hands up, she girds herself, her department, and her town to make a comeback with a revival of a lost tradition, the town's Harvest Festival.

AS A FICTIONAL PARKS MANAGER, SHE MEETS REAL PROBLEMS WITH REAL OPTIMISM.

sentatives approved a budget in early April that would cut parks funding by 25 percent for 2012–2013. Several state parks would have to close. (Don't even ask about the education cuts. They're beyond grim.) Meanwhile, North Carolina leaders, with a budget that needs a \$2.4 billion whack, are considering closing all state parks for two days a week.

City parks are in trouble, too. Houston cut a \$74 million parks budget by \$10.5 million for 2011; for next year, the city is likely to cut another \$15 million. New York City has cut \$129 million in parks funding since 2008. And countless smaller towns are struggling. Online the other day, I watched a crowded city council meeting in Taylor, Michigan, where there's a \$9 million deficit to

So here's to Leslie Knope, for showing us every Thursday night just what's at stake in our public parks' funding. Parks and recreation are competing with a lot of other basic social infrastructure for their sustenance. We can let our parks go to pot, let them close, or even open them to "selective" oil and gas drilling, as Colorado is considering. Or we can try to keep smiling as we press the case, as Knope does, that parks are precious, and that the threats to them suggest a badly needed reordering of our priorities.



BRADFORD MCKEE
EDITOR



stay

Exceptional Design for
Creating a *Sense of Place*

Design by frog design

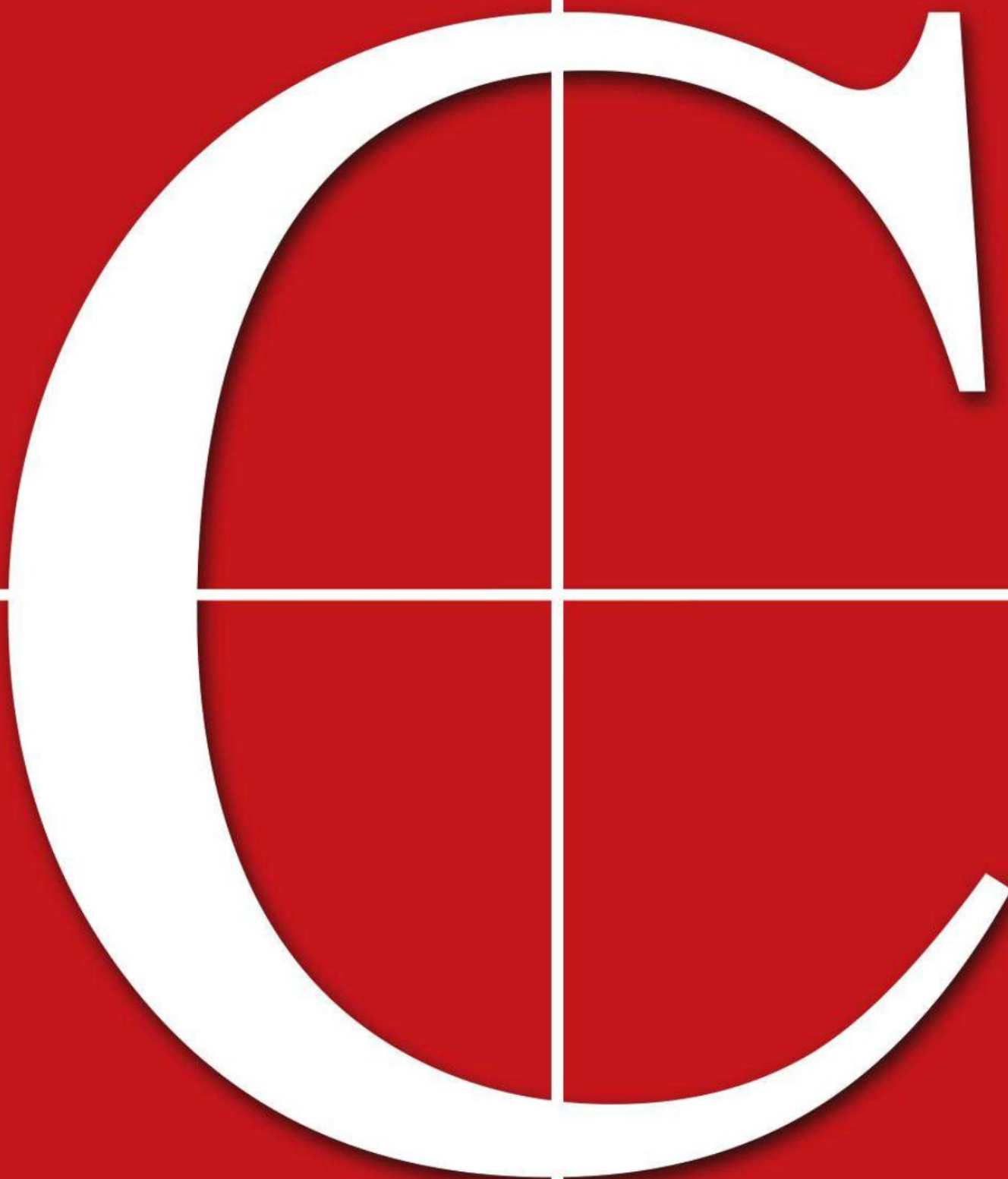
800.430.6205 | landscapeforms.com

landscapeforms®



CIRCLE 126 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-126](http://info.hotims.com/34634-126)

More at magazinesdownload.com or ebook-free-download.net



CADdetails.com

Free details, specifications and B.I.M objects

CIRCLE 471 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-471](http://info.hotims.com/34634-471)

LED UPGRADE SOLUTIONS

SEEING GREEN IN THE GRASS
BEING GREEN FOR THE FUTURE
SAVING GREEN ON THE BOTTOM LINE



amerlux
GLOBAL LIGHTING SOLUTIONS
exterior

The City of Kenosha, Wisconsin is going efficient, recently engaging Amerlux Exterior to purchase and install over 850 of its LED Acorn Retrofit light engines for the lakeshore area. The selection of Amerlux Exterior allowed the city to maintain its existing street light poles and refractors, saving hundreds of thousands of dollars in replacement costs.

Product highlights

- Easy upgrade installation
- Customized plates and mounting brackets to fit most traditional luminaires
- 70+ CRI (making people and objects appear more natural)
- 50,000+ hours of operational life
- Instant start at full brightness
- Warm, neutral, or cool white color
- Fully gasketed and sealed lenses

Outstanding performance and reliability are the cornerstone of our easy-to-install design. This unit will deliver energy and maintenance savings wherever implemented.

LED
10-YEAR WARRANTY

Left: Lakeshore area of Kenosha showing more than 300 LED luminaires installed

www.amerluxexterior.com

CIRCLE 36 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-36](http://INFO.HOTIMES.COM/34634-36)

More at www.magazinead.com or ebook-free-download.net



LEAP INTO WHAT?

Thank you very much for addressing the challenges current students and entry-level graduates like me face in breaking into the profession ("Leap Into What?" March). As a 2010 graduate, I have applied for over 150 entry-level positions and internships with no success, and I understand that many of my peers have similar stories. I think I speak for many who are growing disheartened by a persisting inability to get in the door anywhere, for internship opportunities or otherwise. This article is painfully relevant, and a thoughtful exploration of a thoroughly difficult climate for young aspiring landscape architects.

MATTHEW STURZ, STUDENT ASLA
BELMONT, MASSACHUSETTS

This story hit very close to home with me. After graduating with two master's degrees in 2009, it took me 11 months to find a full-time job. Throughout graduate school, I took a firm stance that I would not accept unpaid internships, even though there were many out there at well-known firms. I strongly believe that individuals who continue to take unpaid internships and firms that offer them significantly devalue the profession.

Last summer, I was lucky enough to be offered a position at the Mayors' Institute on City Design (MICD), a leadership initiative of the National Endowment for the Arts in partnership with the American Architectural Foundation and the United States Conference of Mayors. In the past year, I have heard designers advocate to local leaders about paying them a fair amount when using tools like competitions and charrettes to generate new ideas. Conversely, it is also argued that the profession's willingness to work for free at specific stages of design can be used as an advantage to gain more work down the road. Regardless of which side of the coin you are on, the complaint from designers is that they are not justly compensated for the worth of their work. I wonder, how does the profession expect others to know what they are worth when they don't value their own constituents' time, intelligence, and skills? We set the bar for that, and it starts with hiring young designers at a fair salary.

RADHIKA C. MOHAN, ASSOCIATE ASLA
WASHINGTON, D.C.

THE POSITIVE SIDE OF EVIL TWINS

I wanted to comment on the article by Gweneth Newman Leigh, International ASLA, about copycat designs ("Evil Twins," March).

I live in Dayton, Ohio, just 45 minutes away from Kings Island theme park. The scale-model Eiffel Tower is a quarter the size of the original in Paris. International Street is a model of a European village with shops. The parterre designs along the main water fountain are straight out of a French castle court. While you are visiting, you are in a different world.

The problem comes when the masses of people who visit think this is the original. There are so many people in the Midwest who will never get to Paris or Germany or a little hamlet in England. For these people, Kings Island is the best that it gets.

I personally want to celebrate that enough thought went into a design that past classic works were researched, referenced, and copied. If this is a cop-out or a cheat, so be it. Our history can speak to our new projects. Those material selections, principles, and themes can be incorporated into our projects, presented with a twist of our own creation.

JIM TESKE, ASLA
DAYTON, OHIO

SUBMIT

Please e-mail comments to LAMletters@asla.org or send via U.S. mail to:

**AMERICAN SOCIETY
OF LANDSCAPE ARCHITECTS**
636 EYE STREET NW
WASHINGTON, DC 20001-3736

Introducing
Rainwater Harvesting Systems
from Roman Fountains®
- America's Green Fountain Company!™



- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Innovation & Design



**roman
fountains®**

America's (Red, Green and Blue)
Fountain Company!™

Leading the way on LEED™ Certification



www.romanfountains.com | 1-800-794-1801

Atlanta • Albuquerque • Phoenix • Los Angeles

CIRCLE 242 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-242](http://INFO.HOTIMS.COM/34634-242)

More at magazinesdownload.com or ebook-free-download.net

LANDSCAPES FOR FOOD

It was with great appreciation that I read Adam Regn Arvidson's piece on intensive farming ("Post-Oil Groceries," March). As the director of the Urban Farm program in the department of landscape architecture at the University of Oregon, it is terrific to see that *LAM* has embraced a new agrarianism that addresses the challenges of food systems in a time of peak oil.

Arvidson's suggestion that farmers practice landscape architecture every time they decide what to plant is spot on. Bravo!

HARPER KEELER, STUDENT ASLA
EUGENE, OREGON

MORE ON *LAM*'S REDESIGN

I wish to weigh in on the side of those asking for better readability for the new magazine design. I appreciate the work and thought that goes into the variety of the updated layout, but when the medium co-opts the message it is time to re-evaluate. Some of the new design elements work fine and look great; others are distracting and take too much work from the reader. Two suggestions: increase font size and lose the picture-in-picture.

MARK EPSTEIN, ASLA
SEATTLE

I just was reading the letters to the editor curious to see if others had the same response to your choice of font and font size.

It sounds as though other "aging" landscape architects are enjoying the graphics and format changes but are struggling with the text style and size, like myself. Will the editors be making any changes in response to these comments?

KURT D. PRINSLOW, ASLA
DURANGO, COLORADO

I looked forward to the March Letters about the new design. Unfortunately, I can't read them!

What's with the zingy diagonals? It feels like you're making me read backwards.

ELLEN JOURET-EPSTEIN, ASLA
GERMANTOWN, NEW YORK

SEA PINES RECOGNITION

I wish to commend the reflective look at the planning of Sea Pines Plantation offered by Mark Hough, ASLA ("The Master's Plan," February). As a participant along with Hideo Sasaki and many others during Sea Pines's evolution, I am pleased that Robert Marvin and Ed Pinckney, FASLA, are singled out and recognized. They were intimately responsible in the creation of the landscape character that is a leading component of the special Sea Pines design vocabulary. However, there are two others who were also central to the planning and design process. First is Charles Fraser's brother, Joe, who had the daunting task of translating Charles and Hideo's vision into reality. The second is Bill Foster of Thomas & Hutton Engineers, who was ahead of the times in sensitive environmental engineering and design in that fragile coastal landscape.

DON OLSON, FASLA, PRINCIPAL,
SASAKI ASSOCIATES, INC.
WOODSTOCK, VERMONT

CORRECTIONS

In an article in the February issue about the Sea Pines Plantation resort in South Carolina, the name of the project's developer was misspelled. It is Charles Fraser, not Frasier. We regret the error.

An article in the April issue ("The Fuller Measure") referred imprecisely to the Sustainable Sites Initiative, or SITES. The program is a collaborative among the Lady Bird Johnson Wildflower Center at the University of Texas at Austin, the United States Botanic Garden, and ASLA. It is not "ASLA's Sustainable Sites Initiative." Our apologies for the error.

Owing to a misdelivery of images by the organizers of the Minneapolis Riverfront Design Competition, our April article on the competition incorrectly identified a site plan on page 42 as that of Ken Smith Workshop. The plan shown is in fact the work of another finalist, Turenscape.

_____, ASLA
(YOUR NAME HERE)

Only current full members of ASLA are entitled to place "ASLA" after their names. Use your ASLA suffix with pride on your business cards, stationery, and correspondence. This designation demonstrates that you belong to the only organization in the United States dedicated to the art and science of landscape architecture.



AMERICAN SOCIETY OF
LANDSCAPE ARCHITECTS

MULTISTORY
MODULAR
FREESTANDING

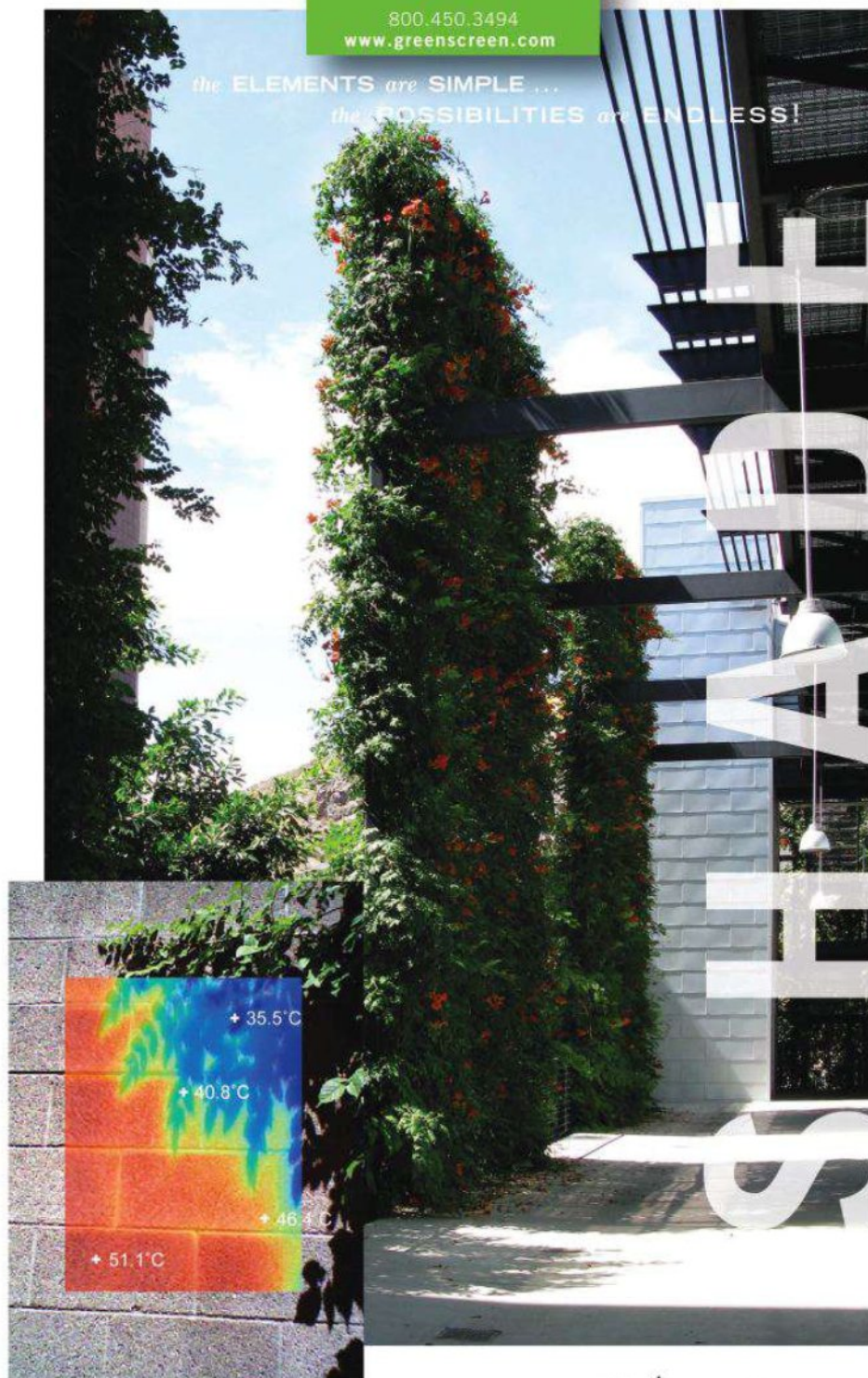
greenscreen®



800.450.3494
www.greenscreen.com

WALL MOUNTED
COLUMNS
COLORS
SHAPES

the ELEMENTS are SIMPLE ...
the POSSIBILITIES are ENDLESS!



research

RE

continuing
education

CEU

plants

PL

sustainable
sites review

SSI

newsletter

NE

leed®
review

LE

CAD

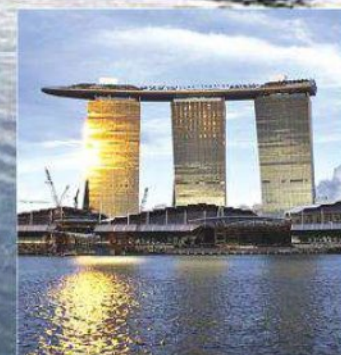
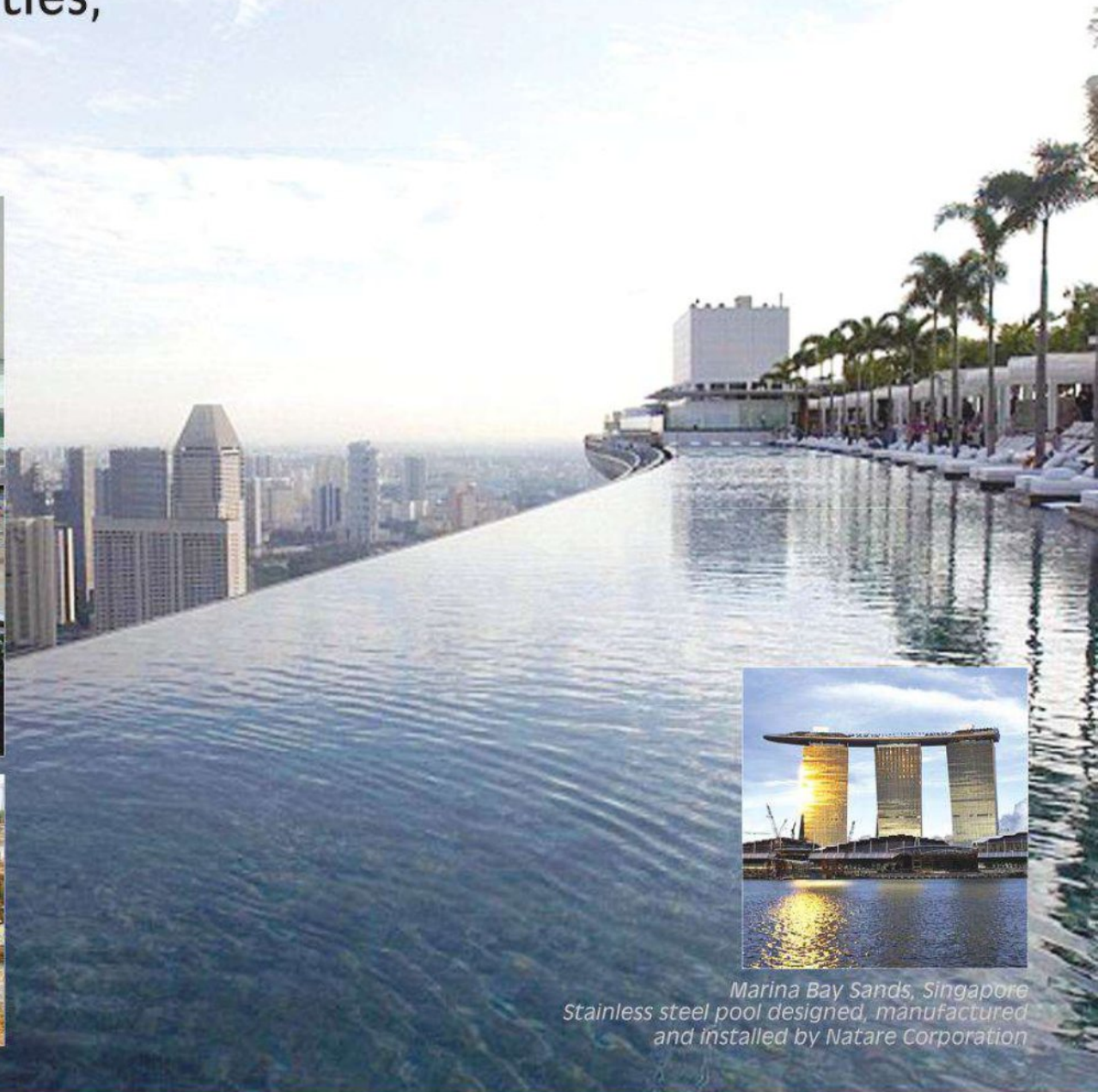
CIRCLE 90 [HTTP://INFO.HOTIMS.COM/34634-90](http://info.hotims.com/34634-90)



Natare Corporation

Stainless steel pools, equipment and systems for the construction and renovation of aquatic facilities and water features around the world.

If you design, construct or renovate pools, spas & aquatic facilities, talk to Natare



*Marina Bay Sands, Singapore
Stainless steel pool designed, manufactured
and installed by Natare Corporation*

Whether it's stainless steel pools and spas, Natatec PVC pool linings, gutter systems, moving bulkheads or filtration, Natare provides the technical expertise, quality systems and essential components for the perfect pool.

Natare Corporation

5905 W. 74th Street
Indianapolis, IN USA
46278-1786

800-336-8828
www.natare.com
natare@natare.com

Available exclusively at Ewing Irrigation

www.ewing1.com | 800.343.9464



**Adjusting the way
you see high efficiency.**
That's intelligent.

Learn more about Rain Bird® HE-VAN
at www.rainbird.com/HEVAN

Introducing the Rain Bird® HE-VAN—the world's first high-efficiency variable arc spray nozzle. Believe your eyes. With higher distribution uniformity and lower scheduling coefficients, you can raise water efficiency while shortening run times. You can experience greater design flexibility thanks to full 0° to 360° adjustability and matched precipitation with MPR and U-Series Nozzles. And you can do it all with the name your customers trust. Seeing what you can do with the new HE-VAN. That's The Intelligent Use of Water.™



Available in popular 12' and 15' radii, HE-VAN Nozzles also offer matched precipitation with Rain Bird® MPR and U-Series Nozzles.



CIRCLE 178 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-178](http://INFO.HOTIMES.COM/34634-178)

More at magazinesdownload.com or ebook-free-download.net

innovative technology. inspired design.



let us change the way you see concrete.



Pittsburgh, Pennsylvania | www.taktl-llc.com | www.situ-urban.com

CIRCLE 477 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-477](http://INFO.HOTIMS.COM/34634-477)

FOREGROUND

NOTES AND REPORTS FROM THE FIELD

The Internet market for endangered plants, the angst over a famous azalea collection, and a new round of battle over wind turbines and winged animals in **NOW**; little ginkgoes and viburnum beetles in **SPECIES**; three tough Minneapolis plantings in **GREEN ROOFS**; the benefits of cloud computing in **WORKSTATION**; new outdoor lighting fixtures in **GOODS**; and a very cool pool-house garden in **HOUSE CALL**.

IMAGE CREDIT
James F. Wilson



ENDANGERED PLANTS: ADD TO CART?



LEFT

The American lotus is listed as threatened or endangered in Michigan, New Jersey, and Pennsylvania.

INSET

The star cactus is protected by the Endangered Species Act, but Patrick Shirey found cultivars on sale online in six states and several countries.

IMAGE CREDITS

Robert H. Mohlenbrock, USDA-NRCS PLANTS database, left; courtesy Lisa Williams, the Nature Conservancy, inset

RESEARCHERS FIND LITTLE OVERSIGHT OF ONLINE SALES.

BY LINDA MCINTYRE,
EDITOR OF NOW
Contact Linda at
linda.mcintyre@asla.org
or @Linda_Mc on Twitter.

Patrick Shirey, a PhD candidate at the University of Notre Dame, found more than he bargained for while surfing the Internet to research the assisted colonization of plants—the controlled, limited movement of threatened species to nonnative habitats where they might be expected to thrive, also known as assisted migration. He discovered that it's pretty easy for anyone to buy endangered plants online.

Shirey and his faculty adviser, Gary Lamberti, dug a bit deeper, and the picture grew only more troubling. Almost 10 percent of the 753 plants listed as endangered or threatened under the Endangered Species Act (ESA) were available for sale, and about half of those were available outside their native range. Only four of the 50-plus sellers offering interstate shipments had the appropriate permit from the U.S. Fish and Wildlife Service (FWS), which regulates this kind of commerce (it's legal under federal law to buy or offer protected plants for sale within a state). Shirey and Lamberti published their findings in January in an article in *Nature* and are working on a longer, peer-reviewed article.

The motives of people buying endangered plants are not always nefarious.

In their research, Shirey and Lamberti found that professional conservationists and amateur groups concerned about the impact of climate change on plant habitats make up a growing portion of the endangered plant buyers.

But even well-meaning people hoping to protect threatened or endangered species by extending their range can inadvertently cause problems. "There can be serious unintended consequences" to assisted migration efforts, Shirey says. "We don't know a lot about [the] ecology of many of these endangered species, and we know even less about their microbiota. In native habitats, we would encourage the propagation and reestablishment of endangered populations through restoration efforts, as long as genetic diversity is being considered. But we urge restraint in moving plants outside their native range because of unintended consequences—pests and pathogens could be brought along—and encourage monitored studies if species are moved outside of their native range for conservation purposes." Shirey and Lamberti cite a 2005 study estimating that damage from the spread of pathogens caused by the introduction of nonnative plant species costs about \$30 billion per year in the United

States alone, damaging crops, pastures, and entire ecosystems.

Inspired by the article, National Public Radio aired a story that highlighted the assisted migration efforts of the Torreya Guardians, a group trying to extend the range of the extremely rare Florida stinking cedar (*Torreya taxifolia*) northward, to a climate in which the group believes the plant could rebound. This led the Center for Plant Conservation to put out a response detailing the risks of moving plant species into habitats to which they have not naturally adapted. "While conservationists would not rule out the use of such techniques in the future rather than suffer a catastrophic loss of global biodiversity, such action merits a rigorous risk/benefit analysis," the conservation center officials said. "Introduction or reintroduction is a fascinating multidisciplinary scientific undertaking that yields a lot of important information for the species, the community, and for advancing conservation techniques when done well and responsibly. It can be a waste and a danger when it isn't."

With such high ecological and financial stakes, enforcement of existing law should be a priority. But the FWS's Office of Law Enforcement has only 210 special agents to investigate all potential plant- and animal-related violations of the ESA and all other protection laws, including the Convention on International Trade in Endangered Species (CITES). The CITES secretariat provides some technical assistance, but it's up to participating countries to enforce its restrictions.

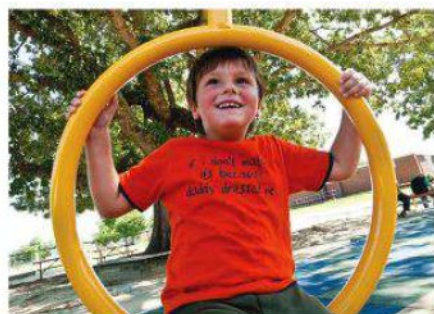


Evos™ — Keeping kids active

Because childhood obesity is a growing epidemic, it is more important than ever to encourage children to be active. Playsystems from Landscape Structures promote fitness and fun with play events that help build upper-body and core strength. Not only do these playsystems flex kid' muscles, but they also stretch imaginations. Learn more about keeping kids active at playlsi.com/ad/active-kids-la.

Better playgrounds. Better world.™

LSI
**landscape
structures®**



*In the end, our priority
is to get kids outside
to play.*

—Steve King, FASLA
Co-founder and Chairman,
Landscape Structures

PROUD TO SPONSOR:

**THE SUSTAINABLE
SITES INITIATIVE™**



LSI LEARNING ACADEMY
Learn more and earn credits!

CIRCLE 127 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-127](http://INFO.HOTIMES.COM/34634-127)

©2011 Landscape Structures Inc.

More at magazinesdownload.com or ebook-free-download.net

← So it's not surprising that the research done by Shirey and Lamberti did not turn up a lot of evidence of enforcement. They suggest that the government establish teams dedicated to monitoring online transactions and note that much of the work could be done with automatic searches and alerts. In an e-mailed statement, the FWS's Office of Law Enforcement explained that its investigators and intelligence analysts use "the full range of investigative/intelligence gathering tools," which includes close monitoring of traffic in plants and animals on the Internet. It added that these analysts engage in "appropriate enforcement follow-up within the framework of the agency's investigative priorities."

But Shirey's findings suggest that this official monitoring is not enough. "I don't want to overstate the impact of [online sales] on [endangered] plants," he says. "Habitat fragmentation, urban sprawl, and other issues are huge threats. But this is low-hanging fruit that could easily be fixed with more effective monitoring." ●



ABOVE
Supporters secured a stay of execution for the arboretum's azalea collection.

IMAGE CREDIT
Courtesy Friends of the National Arboretum

● AZALEAS, AS EVER

THE NATIONAL ARBORETUM'S COLLECTION IS SPARED.

The cherry blossoms around the Tidal Basin are Washington, D.C.'s best-known harbinger of springtime. But for locals, it just isn't spring without masses of pink, purple, red, and white azaleas.

Many of the colorful cultivars that transform capital-area neighborhoods each April were bred locally. Beginning in the late 1920s, Benjamin Y. Morrison, who worked at the U.S. Department of Agriculture's Glen Dale Research Station, introduced 454 new azalea cultivars selected for their large flowers, eye-popping colors, and cold hardiness. While Morrison is best known for his work on the "Glenn

public during the spring of 1949 when neighbors clamored for a closer look at the azaleas. Today, the azaleas attract thousands of visitors each year. So it was a bit of a surprise when the news broke last November that the cash-strapped arboretum was planning to destroy thousands of mature azaleas (including many planted by Morrison in the 1940s) to save on maintenance costs and reduce the crush of visitors during peak bloom time.

Local azalea lovers rose up in protest. They established a "Save the Azaleas" web site and posted regular updates from stakeholders such as leaders of the Azalea Society of America, the American Rhododendron Society, and the Friends of the National Arboretum (FONA). The coalition also pushed to save the boxwood and perennial collections, which too had become part of the de-accessioning effort.

The azalea activists flooded officials at the arboretum, USDA, and Congress with pleas for mercy. And mercy they got: In February, the arboretum's new director, Colien Hefferan, announced that all of the collections would be preserved, at least for now, while the arboretum works with stakeholders toward a long-term solution. "We have heard and appreciate the public outpouring of comments and concerns," Hefferan said.

This news came with an intriguing D.C. twist: An anonymous donor pledged \$1 million to help preserve the collections, in honor of the local lawyer Brendan Sullivan and his wife. Sullivan represented Oliver North during the congressional inquiry into the Iran-Contra affair in the mid-1980s. When asked by a senator to temper his advocacy and let his client answer some questions directly, Sullivan responded that he was a lawyer, "not a potted plant."

The donation won't ensure the upkeep of the plants in perpetuity. FONA is launching a campaign to raise another million dollars to get the collections, and the institution, on stronger financial footing, says the group's board chairman, Jeanne Connelly. "We were heartened by the outpouring of support and the public attention," she says. "Now we need to harness that concern, interest, and enthusiasm to make sure that we not only save the azalea and boxwood collections, but develop a plan for the long-term success of the arboretum." ●

Dale" azaleas, he was also the first acting director of the U.S. National Arboretum, which still has a large collection of his azaleas.

Legend has it that the arboretum, which is part of USDA's horticultural research program, first opened to the



The Solaire - New York, NY

From concept to completion

A green roof is about more than just being "green"; its success also depends on keeping the building dry. American Hydrotech's Garden Roof® Assembly is setting the standard by which all other green roofs are measured and our Monolithic Membrane 6125® is the key. MM6125® was developed specifically for wet environments and is a seamless membrane that is bonded directly to the substrate. It's the perfect choice for a green roof and the only one Hydrotech recommends for a Garden Roof Assembly.

Additionally, our Total Assembly Warranty provides owners with single source responsibility from the deck up. This is a warranty that only American Hydrotech can offer, and peace of mind that only American Hydrotech can provide.

To learn more about the Garden Roof Assembly, please call **800.877.6125** or visit us online at **www.hydrotechusa.com**.



*Experience matters!
American Hydrotech's
Garden Roof Assemblies
have been installed for
the past **13** years on
over **1,400** structures
covering more than
7,100,000 SF worldwide.*

American Hydrotech, Inc. | 303 East Ohio | Chicago, IL 60611 | 800.877.6125 | www.hydrotechusa.com

© 2011 Garden Roof is a registered trademark of American Hydrotech, Inc.





FIRE AND RAIN

AN ARTIST CAPTURES STORMWATER AT A SEATTLE FIRE STATION.

BY TIM NEWCOMB

At a new Seattle fire station, a 25-foot-high steel sculpture takes rainwater runoff to an 8,000-gallon underground cistern. The artist, Stephen Glassman, worked with the architect, Scott Wolf of the Miller Hull Partnership, and the landscape architect, Jack Johnson, ASLA, of Outdoor Studio, to integrate the sculpture into a rain garden that serves as a buffer between the street and the station. Troughs along the route hold native switchgrass (*Panicum virgatum*).

The sculpture, titled *Thornton Creek* after a stream that once flowed through the Lake City neighborhood, is made of reclaimed galvanized steel pipes, 21 inches wide, pressed into ovals and sawed in half to make the water visible.

Glassman says the point of the piece is to “elevate the grasses and re-create a creek vertically.” Johnson placed a bridge over the front rain garden that connects to the station’s entrance and tied the garden to a swale on the west side of the building using recycled curb-stones. Johnson planted this open-air drainage ditch with native dogwoods, roses, and dawn redwoods.

The runoff, held in the cistern, supplies a low-flow drip irrigation system. The cistern also furnishes water for the fire station’s toilets, through the use of a pump system and a bladder storage tank in the building. And a courtyard in the rear of the station features blueberries for the firefighters. ●

TOP

Station 39’s rain sculpture was inspired by a local creek.

RIGHT

Water moves along the sculpture to an underground cistern; the troughs have been planted with switchgrass.

IMAGE CREDITS

Nic Lehoux



Access Standard Form Contracts — agreements shaped to landscape architecture.

Get your new projects off to a safe, sound start with contract language and protections specially designed for landscape architects. Affordable prices are tiered to the size of your firm, with substantial discounts for members. To order, go to www.asla.org/contract.

Your Business. Your Security.

Annual licenses:

1-10 person firms \$50 Member • \$340 Non-member

11-49 person firms \$200 Member • \$490 Non-member

50+ person firms \$450 Member • \$740 Non-member

SURESCAPE



**AMERICAN SOCIETY OF
LANDSCAPE ARCHITECTS**

ASLA Honor Award Recipient, James Clarkson
Environmental Discovery Center by MSI Design,
(photo by MSI, Ellen Puckett Photography,
Justin Maconochie Photography)

THAT'S LIFE, NOT ART

A FEDERAL COURT DECLINES TO PROTECT A GARDEN'S "AUTHOR."



ABOVE
Wildflower Works was installed in 1984; the Chicago Park District changed the design in 2004.

IMAGE CREDIT
Courtesy Chapman Kelley

A February decision by the U.S. Court of Appeals for the Seventh Circuit challenged the notion that a garden is a work of art, at least as far as copyright law is concerned.

The garden at issue was Wildflower Works, installed in Chicago's Grant Park by the artist Chapman Kelley in 1984—two large elliptical beds spanning an acre and a half. Kelley, with a horticultural adviser and numerous volunteers, bought and planted a couple hundred thousand plugs selected for looks and hardiness. They maintained the installation over several years. In 1988, the Chicago Park District told Kelley it would discontinue the display. When Kelley sued, the Park District issued a temporary one-year permit, which it then renewed every year through 1994. In the absence of either a new permit or another notice of termination, Kelley and his volunteers continued to tend the plot for another decade.

But in 2004 the Park District, citing inadequate maintenance and adjustments required by the new Millennium Park under construction nearby, decided to downsize Wildflower Works by more than half and reconfigure the ellipses into rectangles. Kelley objected but did not request an opportunity to salvage his plants, and a week later the Park District followed through on its plan. Surviving plants were incorporated into the new design along with some new ones.

Kelley sued under the Visual Artists Rights Act (VARA) of 1990, claiming that Wildflower Works qualified for protection as both a painting and a sculpture. He claimed that the Park District's changes amounted to a "distortion, mutilation, or other modification" of his work that was "prejudicial to his honor or reputation." The suit

also alleged that an implied contract was made in a conversation Kelley had with a Parks District official, in which Kelley says he was told that he could keep operating as usual without a permit. Kelley sought \$1.5 million in compensation for his plants and \$25 million for violation of his "moral rights" under VARA.

The trial court accepted that the garden qualified as a "painting or sculpture" but found it insufficiently original to qualify for protection under VARA. It agreed that there was an implied contract, but awarded only symbolic damages of one dollar. Both sides appealed.

In *Chapman Kelley v. Chicago Park District*, the Seventh Circuit rejected the notion of a garden as a copyrightable work of art. "A living garden like Wildflower Works is neither 'authored' nor 'fixed' in the senses required for copyright," wrote Judge Diane Sykes in the opinion. "Simply put, gardens are planted and cultivated, not authored. A garden's constituent elements are alive and inherently changeable, not fixed. Most of what we see in a garden—the colors, shapes, textures, and scents of the plants—originates in nature, not in the mind of the gardener. At any given moment in time, a garden owes most of its form and appearance to natural forces, though the gardener who plants and attends it obviously assists."

Kelley, who says he will appeal, believes Wildflower Works was more than a mere garden. "I'm not a gardener, I'm simply a painter," says Kelley, whose on-canvas work often depicts flowers, still lifes, and seascapes. "I saw I could make the same statement as in paintings by actualizing a design in a different material."





KORNEGAY DESIGN

877.252.6323 www.kornegaydesign.com

CIRCLE 118 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-118](http://INFO.HOTIMS.COM/34634-118)

More at magazinesdownload.com or ebook-free-download.net

← Andres Quintana, a California-based lawyer with expertise in copyright law as it applies to the design professions, says the decision doesn't really change much on the ground for landscape architects. They have limited intellectual property rights extending only to designs as they are fixed on paper or digital media (see "LA Law," *LAM*, January 2006).

WIND POWER, FOR THE BIRDS

BELOW

The guidelines are intended to reduce turbines' impact on birds, but they're voluntary, not mandatory.

IMAGE CREDITS

Mike Parr/American Bird Conservancy, www.abcbirds.org



But it does, he says, raise the bar on the concept of authorship. "The landscape architect is creating the design and choosing and placing plants," he says. "To say there's no authorship of the work is significant. We're going to be watching this carefully."

Ultimately, though, if landscape architects want more protection, they'll have to ask Congress, as architects did successfully a couple of decades ago. Now they get protection for built works as well as drawings. "Short of lobbying, I don't know how landscape architects are going to be able to protect designs outside of the plans themselves," says Quintana. "To the extent there was any doubt, this case shut the door, at least in the Seventh Circuit. And it will be a touchstone for other courts." ●

DRAFT GUIDELINES SATISFY ALMOST NOBODY.

Hardly anyone, it seems, is very happy with the proposed new guidance about wind farms and birds, which the government issued in February.

The U.S. Fish and Wildlife Service (FWS) consulted with a range of interested parties and issued its draft guidelines to try to improve site selection and mitigate the farms' impact.

The guidelines would be voluntary, but the wind industry came out against them. John Anderson, the director of siting policy for the American Wind Energy Association (AWEA), said in a statement that the parameters lacked flexibility and would "negatively impact development from the standpoint of commercial viability." A few weeks later, an AWEA news release challenged the notion that wind turbines pose a significant threat to birds at all. It cited a 2005 U.S. Forest Service report that estimated the annual bird toll at about 108,000, far fewer than losses from buildings (550 million), power lines (130 million), pesticides (67 million), cats (10 million), and radio/cell phone towers (4.5 million).

The American Bird Conservancy, a habitat conservation group, is also displeased. The group wants "bird-smart" regulations for situating wind turbines to be mandatory and had advocated for better use of technology to prevent bird kills, better monitoring before and after construction, and compensation for habitat loss. The conservancy is also distressed by what its director of public relations, Robert Johns, says is industry misinformation. Johns cited a 2008 conference paper by an FWS biologist and said the yearly number of bird deaths from turbines is about 440,000. He also notes that if the industry meets its ambitious expansion target of supplying 20 percent of U.S. power by 2030—now it's about 2 percent—the number of bird deaths each year will increase tenfold. "There is certainly a lot of good direction in the guidelines," Johns says. "Making them mandatory would create a framework to have a dialogue on the specifics. The solutions really aren't that difficult to implement."

The FWS is accepting comments until May 19 at windenergy@fws.gov. ●

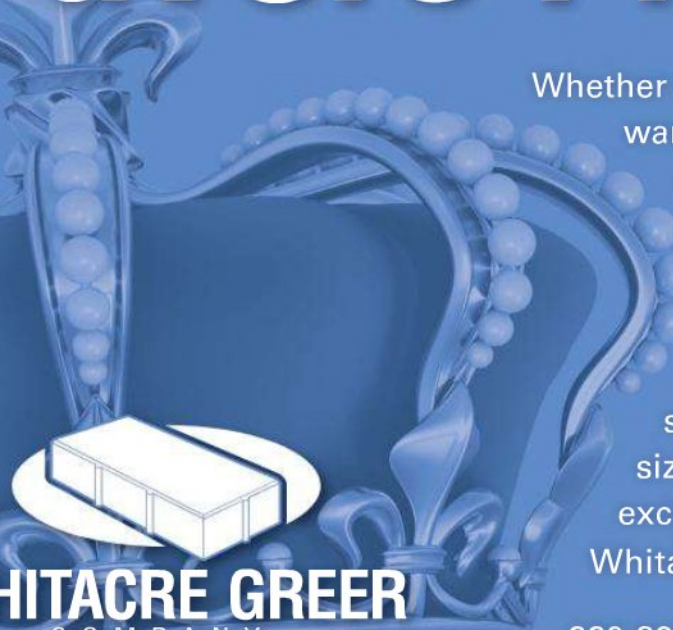
Queens Way
Long Beach, CA

Boardwalk Paver 2-1/4x9x3 (WxLxH)

Pavers Fit for a King

Whether your project is for a visiting King or for visitors to a King, you want a look that's regal and fitting for royalty. That's why you should look to the king of pavers – Whitacre Greer.

With Whitacre Greer, you'll choose from a wide selection of colors, sizes and designs that will give your project the look it deserves – whether it's hosting a coronation or a backyard barbecue. Need to bring something special to your next project? No matter the size, whether you need it to whisper practically or shout excitement... when you want imperial looks and quality, choose Whitacre Greer pavers.



WHITACRE GREER
COMPANY

330-823-1610 | 1-800-WG PAVER | www.wgpaver.com

CIRCLE 64 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-64](http://INFO.HOTIMES.COM/34634-64)

More at magazinesdownload.com or ebook-free-download.net



SOLAR DECATHLON MOVES

ABOVE

The last Solar Decathlon, in 2009, was held on the heavily used stretch of the National Mall between the Washington Monument and the Capitol.

IMAGE CREDIT

Stefano Paltera/U.S. Department of Energy Solar Decathlon

THE BIENNIAL EXPO IS GIVEN A NEW SITE.

The Solar Decathlon, in which college teams build small, solar-powered, energy-efficient houses, has been a reliable biennial competition on the National Mall since it was first held there in 2005. But in January, its sponsor, the Department of Energy (DOE), and the Mall's caretaker, the National Park Service (NPS), revoked the event's permit for 2011 because it causes so much wear and tear on the landscape.

The projects require heavy equipment that destroys turf and compacts the soil on a landscape that is already stressed from the thousands of events held there every year. In December,

the NPS's parent agency, the Department of the Interior, announced a long-term plan to improve the landscape, including the grassy stretch between the U.S. Capitol and the Lincoln Memorial, where the Solar Decathlon has been held.

The decathlon's supporters were disappointed. Then the DOE announced in February that the decathlon would be held at West Potomac Park, between the Potomac River and the Tidal Basin near the Franklin Delano Roosevelt Memorial, and the participants felt better.

"The Purdue team and our sponsors are excited," says Kevin Rodgers, a graduate student who is the school's project manager. "West Potomac Park provides excellent public exposure."

The decathlon will take place from September 23 through October 2. Visit www.solardecathlon.gov for more information. ●

***Sit back. Relief for your product search
is just a keyword away.***

BPM SELECT[®]

The Premier Building Product Search Engine

Enter your
product term

Benches

Search

**13,000 Building Product Manufacturers
Six Million Targeted Web Pages
*One Source!***

www.bpmselect.com

CIRCLE 366 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-366](http://INFO.HOTIMS.COM/34634-366)

**See us at
AIA Expo 2011
New Orleans
May 12-14
Booth # 3517**

**Earn One
AIA-Approved
Learning Unit!**

Register now at:
[aecdaily.com/sponsor/
bluebook](http://aecdaily.com/sponsor/bluebook)

 **FREE**
on-line
continuing
EDUCATION
www.aecdaily.com





Palazzo Hotel Casino
Las Vegas, NV

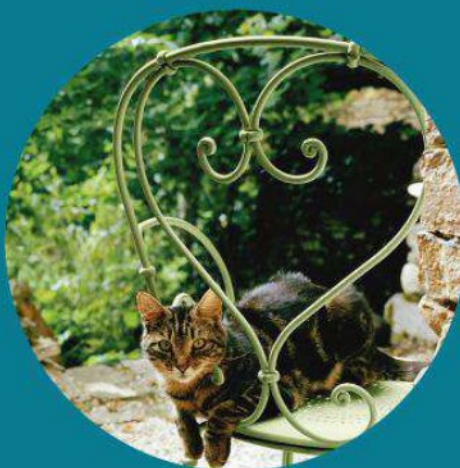
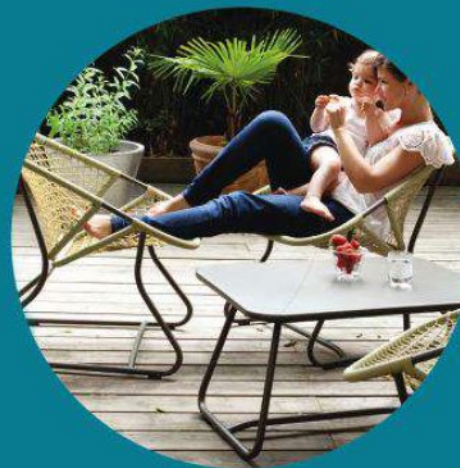


new catalog available

engineered modular paving
eurocobble®

877.877.5012 USA www.eurocobble.com a division of MICHAEL VANDEVER ASSOCIATES

CIRCLE 71 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-71](http://INFO.HOTIMS.COM/34634-71)



fermob
outdoor lounge

www.fermobUSA.com
info@fermobUSA.com

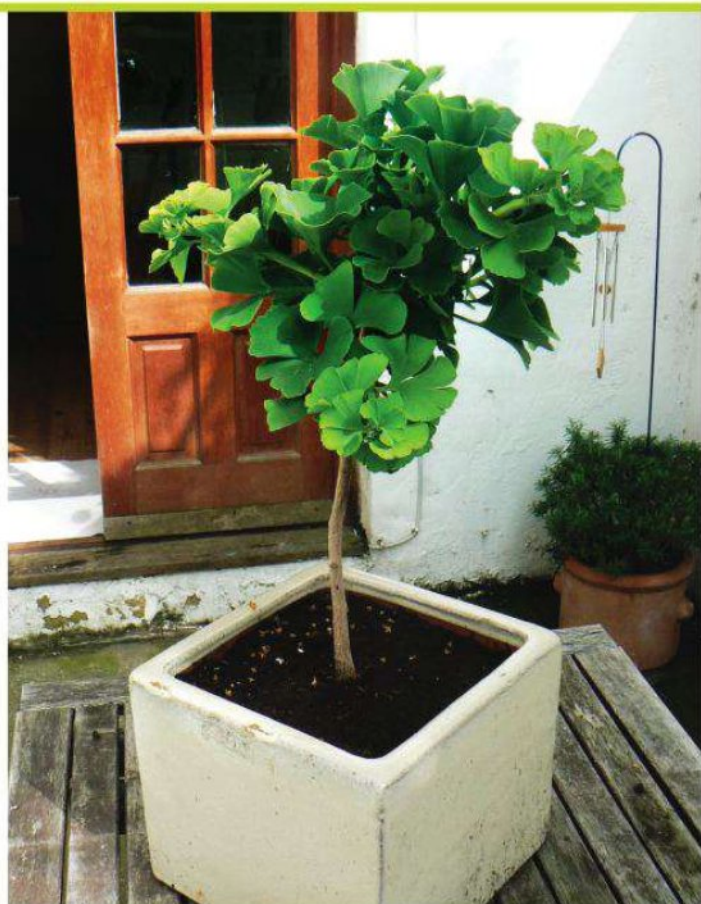
CIRCLE 354 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-354](http://INFO.HOTIMS.COM/34634-354)

Photographers: Stephane Rambaud, Jean-Marc Palisse, Caroline Briel, Camille Malissen

More at magazinesdownload.com or ebook-free-download.net

NOTES FROM THE WORLD OF LIVING THINGS

BY CONSTANCE CASEY



ABOVE
Ginkgo biloba 'Troll'

IMAGE CREDIT
Jennie Fellows

Evolution has worked out pretty well for us. The creation of our species has taken a lot of mutation and selection, and the process continues. But you've got to admire the living things that don't feel the same pressure to evolve. Foremost among these are ginkgo trees, which have remained virtually unchanged for close to 200 million years. They survived whatever caused the mass extinction of the giant reptiles, and then, when the world turned flowery, they resisted being crowded out by the upstart angiosperms.

In comparatively recent history, ginkgo trees were thought by botanists to be extinct in the wild. Luckily, they were preserved on the grounds of monasteries and temples in China, Japan, and Korea, to be discovered by European botanists

WHEREVER YOU GO, DWARF GINKGOES

at the end of the 17th century. (They're making a comeback in the wild, at the Tianmu Shan nature preserve in eastern China.) The specimen that Engelbert Kaempfer brought back to the Utrecht Botanic Garden in the Netherlands in 1690 is still there. Another transplant that came to England's Kew Gardens in 1762 is growing well. The ginkgo is on a very short list of organisms actually saved from extinction by human beings.

Ginkgo trees in Japan famously survived a gigantic man-made catastrophe—August 1945. A month after the atomic bomb fell on Nagasaki, ginkgo trees growing less than a mile from the center of the blast budded and grew, without deformation. At least one of those trees is still growing next to a temple that was rebuilt after the bombing.

For all their impressive history and admirable qualities, especially the charm of the fan-shaped leaf, ginkgoes are not grown in many gardens. It's a challenge to fit a 100-foot-high tree, especially one that might live several thousand years, into a domestic landscape. But there's a rapidly growing list of dwarf ginkgoes available that work in a mixed border, a rock garden, as a standard, and even in a pot. Bonsai masters always prized the tree for its large leaf and deeply furrowed trunk. The dwarf cultivars

deliver the bonsai kind of beauty along with the advantages of the full-sized tree. At every size, the ginkgo is tolerant of air pollution (as we'd expect from a tree that survived an atomic bomb), generally unbothered by insects or diseases, not particular about soil type, and, certainly, long lived.

The dwarf forms are bred from witch's brooms—bud mutations that result in congested growth on a full-sized tree—or as chance dwarf seedlings. Left to their own devices, ginkgoes have an amazing way of reproducing that involves motile sperm equipped with little waving cilia, discovered in 1895 by Sakugoro Hirase, one very surprised Japanese botanist. Most gymnosperms' male pollen grains travel passively down to the ovule via gravity; the ginkgo is proactive. The species' ability to survive is aided by two asexual backup strategies—aerial roots and underground buds ready to sprout in case of trauma. The fertilized seeds on female ginkgoes are enclosed in a fleshy seed coat that, as it rots, releases the smell of vomit; the new dwarf ginkgoes are male.

Peter Del Tredici, a former Arnold Arboretum director and one of the authors of *Ginkgo Biloba, A Global Treasure: From Biology to Medicine*, dismisses the dwarf ginkgoes as merely a curiosity. They

Inquire about our aquatic playground solutions
Splashpad® **Poolplay™** **Spraypoint™**



VORTEX

World leader in Aquatic Playground Solutions
with over 4,000 installations worldwide

vortex-intl.com • info@vortex-intl.com
(USA/CND) 1.877.586.7839 • 514.694.3868

CIRCLE 226 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-226](http://info.hotims.com/34634-226)
More at magazinesdownload.com or ebook-free-download.net



LEFT

Ginkgo biloba 'Majestic Butterfly'

IMAGE CREDIT

Talon Buchholz,
buchholznursery.com

are very tempting, though. The names of the compact cultivars don't quite capture their appeal. One of the prettiest little trees is called 'Troll.' There's also a 'Gnome.' One seemingly inexplicable cultivar name is 'Chase Manhattan.' 'Jade Butterfly' is fittingly elegant; 'Majestic Butterfly' is a striking variegated version.

The small ginkgos look great planted with the tree ferns and cycads their

forebears grew beside in the Permian Age, as well as in a mix with conifers and Japanese maples. One great advantage to the smaller trees is that you can see the leaves, an inspiration to art deco designers, up close.

Back to our own evolution, which could entwine with the ginkgo's qualities. The human brain could use some fine-tuning in general and definitely some late-life tune-up. *Ginkgo biloba* leaf extract, used for centuries in Chinese medicine to treat a broad array of ailments, is now taken by some people who believe it improves memory and wards off de-

mentia. There's a 1,000-acre farm in Sumter, South Carolina, with its many ginkgo trees whacked back to shrub size, the leaves harvested primarily for the European market. But so far, studies by the National Center for Complementary and Alternative Medicine at the National Institutes of Health have found the extract ineffective in lowering rates of dementia and Alzheimer's disease in the elderly. But we don't have to actually consume the leaves to benefit from the ginkgo. Like the Asian monks who saved the species, we might meditate on the tree's qualities of patience and perseverance. ●

ASPARAGUS, AFTER THE FEAST



ABOVE

An asparagus hedge makes a feathery wall at Chanticleer, northwest of Philadelphia.

IMAGE CREDIT

Rob Cardillo

Asparagus is one of the most impressive forces of April, a scary demonstration of the energy of spring. The young shoots seem to zoom up out of the ground. You have to catch the tender spears quickly before they toughen up into woody little trunks.

Steaming, grilling, vinaigrette, hollandaise, all fine. But we should also take advantage of the vigorous growth that follows the edible stage. The uneaten stalks grow into gorgeous plants, creating, essentially, a hedge. First they go through a bamboolike stage. (The Vietnamese name for asparagus translates as "European bamboo shoots." The Western word comes from the Persian *asparag*, to sprout.)

Then in early summer the tropical-looking stems explode into bright green ferny foliage. There are 300

species in the asparagus genus; most of them are grown solely for their foliage. The vegetable, *Asparagus officinalis*, is a crop that takes a lot of space, one of the reasons home gardeners hesitate to grow it, but it is fully as gorgeous as its decorative cousins.

One of the many quirky and imaginative uses of plants at Chanticleer, a stunning garden open to the public on the Main Line northwest of Philadelphia, is a 200-foot-long asparagus hedge at the edge of the cutting garden. By midsummer the asparagus foliage is up to seven feet tall. More see-through than a conventional evergreen hedge, it creates the desirable effect of half-concealing what lies beyond. The tallest flowers in the cut flower garden show over the top of the asparagus foliage; the colors of the lower flowers are barely visible. The ferny foliage catches and holds morning dew or rain.

Doug Croft, who has cared for Chanticleer's cut flower garden and vegetable beds for 11 years, says the hedge is the most asked-about feature in the garden. Settle a bet for us, visitors say: That can't be asparagus.

PEACOCKPAVERS™

Handcrafted Concrete Pavers

Our interlocking, 3" thick driveway pavers look like aged cobblestone and are easy to install.

Your sense of style. Take it outside.

Wherever you go, great style seems to follow. And the same is true of our Old World style pavers. Wherever you place them, indoors or out, they make everything around them more beautiful. With the authentic look of ancient travertine, our architectural-grade concrete pavers are ideal for creating stylish outdoor spaces. Terraces, pools, water features, walkways and more. And they're eco-friendly.

For more information on our products, visit PEACOCKPAVERS.COM. Request our print brochure or e-brochure today.
Sample kit \$25 (Please specify 1/2", 1" or 3" thick pavers.) 800.264.2072

Find us on Facebook.



CIRCLE 156 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-156](http://INFO.HOTIMS.COM/34634-156)

More at magazinesdownload.com or ebook-free-download.net

It takes at least two years to develop the thick roots needed to produce a decent crop of spears, sometimes as long as five years for an ample harvest, but the ornamental effect, of course, comes much more quickly. Traditional kitchen garden advice is to give asparagus plants loose, well-manured ground, and keep fertilizing and watering all season. Croft says Chanticleer gets a good crop simply by top-dressing with house compost every other year.

The plants, hedge and crop, demand full sun and well-drained soil. They like to be planted high, Croft says. He uses about eight inches of compost to build up the soil before planting the crowns in late autumn or early spring.

The most coveted asparagus, said by the French to be the most elegant vegetable in the world, is 'Précoce d'Argenteuil,' which was grown in that Paris suburb (where Claude Monet painted his red poppies) until the 1990s, when land there became too valuable to farm. The Argenteuil asparagus, for which seeds are available online, sends up shoots that are especially large, thick, and fleshy—unabashedly manly.

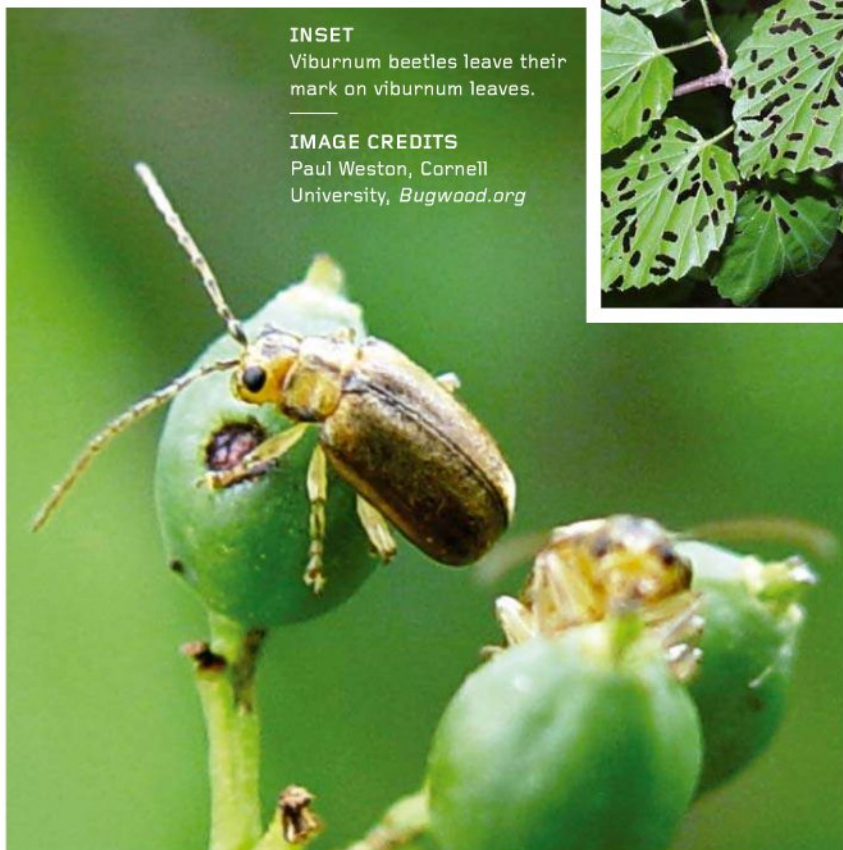
The male plants, in general, produce more spears. Read into that what you will. The asparagus lines developed recently at Rutgers—disease resistant and with a long productive life—bear the swaggering names 'Jersey Giant,' 'Jersey Prince,' and 'Jersey Knight.'

For all its vigor, an asparagus hedge is not going to be that of a yew or holly. An herbaceous perennial, asparagus yellows in the fall with the look of a slightly scraggly *Amsonia*. But you can't eat yew or holly. ●

BELOW
Viburnum beetle

INSET
Viburnum beetles leave their mark on viburnum leaves.

IMAGE CREDITS
Paul Weston, Cornell University, Bugwood.org



VIBURNUMS, BEWARE!

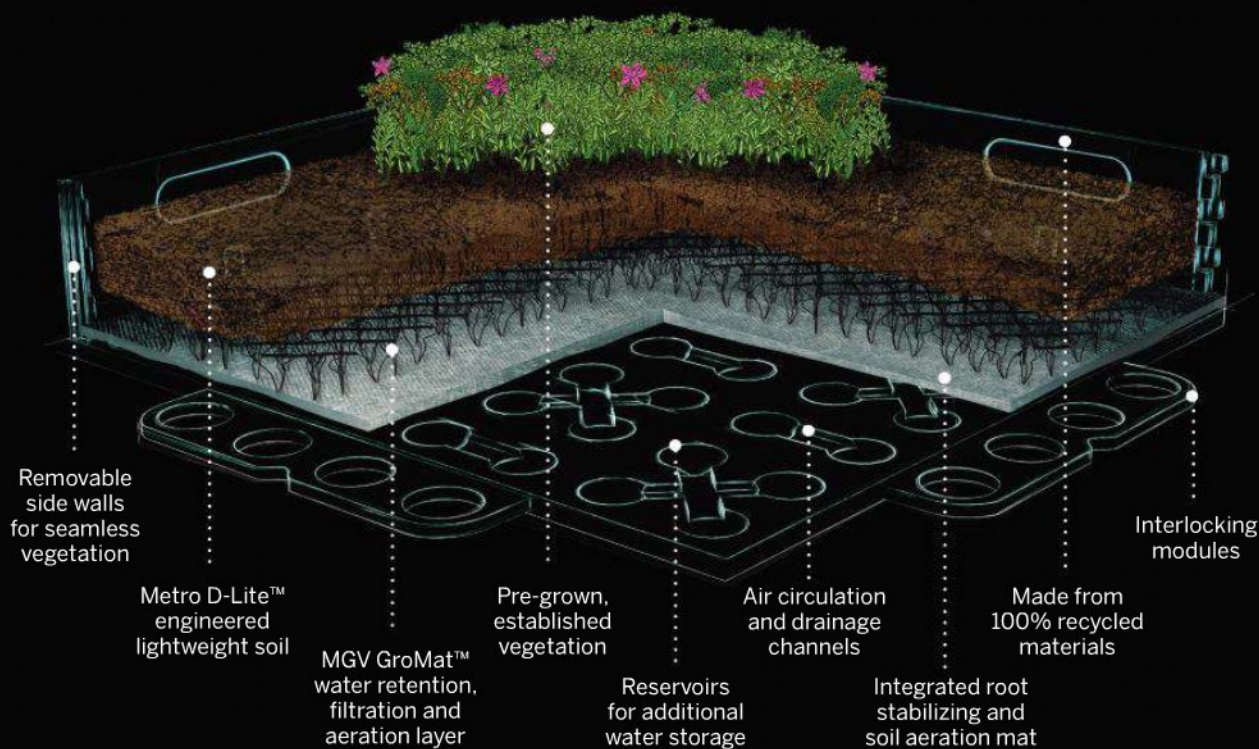
They're not turning forests brown like the woolly adelgids, or wiping out street trees like the Asian long-horned beetle. But it's particularly infuriating when a horde of viburnum beetles reduces the leaves on a treasured shrub to tattered lace.

These small brown beetles (*Pyrrhalta viburni*) are spreading in North America—one more darned invasive, this time from Europe, first detected in Canada in the 1970s and in the United States in the late 1990s. The viburnums that are their sole target have long been a

favorite of retailers, landscape designers, and home gardeners not only for their white blossoms and bright berries, but also for their durability and adaptability. The multiplying beetles could do significant economic damage to the nursery trade.

It's the larvae that do the most serious injury, eating between the leaf veins, leaving a skeletal leaf, and thus a gravely undernourished plant. They emerge in spring in teeming masses, in one pest control manual's dread advisory, "too numerous to hand pick."

Introducing MGVGroRoof™

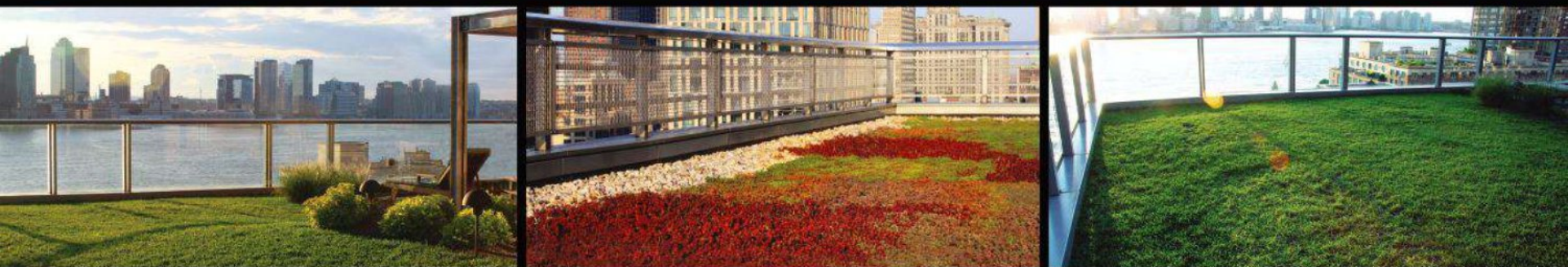


The new standard in hybrid green roof technology.

Introducing the MGVGroRoof™ hybrid extensive green roof system. Interlocking, pre-vegetated modules are designed to provide all the horticultural benefits of a grown-in-place system while achieving all the economic advantages and installation efficiency of a modular system.

This comprehensive design incorporates a unique water retention, filtration and aeration system as integral components of the MGV GroMat™, our exclusive root stabilizing and soil aeration layer. The rigid base contains reservoirs for water storage with channels for air circulation and drainage.

Finally, the real hybrid has arrived.



MGVGroRoof™

INNOVATIONS IN GREEN ROOF TECHNOLOGY

MADE IN THE U.S.A.

www.mgvgrorooft.com | 631.971.0200

A division of Metro Green Visions, Inc.

CIRCLE 453 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-453](http://INFO.HOTIMS.COM/34634-453)
More at magazinesdownload.com or ebook-free-download.net

GLOSSY-LEAVED VIBURNUMS SEEM TO BE PARTICULARLY ATTRACTIVE TO THE BEETLE, WHILE THOSE WITH FUZZY LEAVES ARE LESS APPEALING.

BELOW

Viburnum beetle larvae are greenish-yellow fresh out of the eggs and then become a yellowish-brown with black spots. They are even more damaging than the adult beetle.

IMAGE CREDIT

Paul Weston, Cornell University, Bugwood.org

Viburnum beetles have overtaken snails and slugs as the number one problem on the 2010 Royal Horticultural Society Top 10 Garden Pests list. Easy to say that it isn't that hard to overtake snails and slugs, but anyone who has spent more than two minutes talking to a Brit with an allotment garden will know that gardeners there *really* hate snails and slugs. The RHS abets the beetle phobia, condemning the insect as "a sap-sucking, leaf-disfiguring villain," and advising gardeners "you are highly unlikely to be able to control this pest without using a contact and systemic spray." For the less warlike RHS members, the society admits that pyrethrum might work, but is more enthusiastic about the aggressively named Bayer Provado Ultimate Bug Killer.

Over here in the New World, entomologists counsel that the most effective tactic is to nip the pest in the bud, almost literally. The females deposit several eggs on the tips of branches from late summer to fall. (An industrious little creature, she may lay 500 eggs.) She covers the egg-filled holes with excrement and bits of chewed bark. The good news is that, come spring, the brownish-black excrescences are visible on the shrub's greenish new foliage. Therefore the nonchemical strategy is to prune out and destroy the infested twigs before the eggs hatch. One problem is that the bumps are not much bigger than a pinhead. Another is that in trimming the current season's growth, you're basically doing the same pruning job a deer would do. (Deer like to prune for compact, bushy growth.)

If permitted to hatch, the beetle larvae have a couple of stages. Fresh out of the eggs, they're greenish-yellow, less than 1/25 of an inch long, and hard to see. In their second and third stages, the larvae expand to a half-inch long (twice as big as they'll be as adults), yellowish brown with numerous black spots.

In late June the well-fed larvae leave the devastation behind and crawl down to pupate in the soil. The adults emerge in about 10 days, and until they die with frost, they do less leaf damage than they did as larvae—they make small circular holes.

The beetle in whichever stage prefers viburnums with glossy leaves, those with not much fuzz on their foliage. Unfortunately one of the most susceptible is *Viburnum opulus*, the cranberry bush. A cultivar, *roseum*, produces the greenish-white snowballs popular in the cut flower trade. Another victim is *Viburnum nudum*, native from Maine to Florida and west to Texas. The cultivar 'Winterthur' is widely planted for its bright pink berries that turn to blue and purple.

The more resistant varieties to viburnum beetle depredation are the deliciously fragrant *carlesii*, *burkwoodii*, and *juddii* cultivars. Apparently their relatively hairy leaf surface is unappealing. Also not attacked, so far, is the *Viburnum plicatum* var. *tomentosum* or doublefile, which with its horizontal branches in natural cloud formation is one of the most elegant of flowering shrubs. Thus, for now, some favorite viburnums are not being chewed on. And it seems like good news that the adult beetles do far less damage than the swarming larvae—that is, they do less *visible* damage. You'd hardly notice the small, nondescript, brown adults. But they can fly and infest new plants, and their tastes might change. ●

CONSTANCE CASEY IS A FORMER NEW YORK CITY PARKS DEPARTMENT GARDENER AND WRITES ON NATURAL HISTORY FOR THE ONLINE MAGAZINE SLATE.





What does responsible stewardship of a cultural landscape entail? How can design respect both history and ecology?

The National Historic Landmark Jay Property in Rye, NY is the ideal venue to explore these challenges, spark discourse, and inspire sustainability and preservation. Jay Heritage Center together with The Cultural Landscape Foundation will host a one day symposium with six nationally known experts in landscape architecture and environmental design. Speakers will include: Cheryl Barton, Charles Birnbaum, Rick Darke, Patricia O'Donnell, Doug Reed, and Thomas Woltz.

CEU credits will be offered for this event. Also supported by the City of Rye, Sustainability Committee.

EXHIBIT

Don't Miss "Every Tree Tells a Story" on view at the Jay Property through June 15

Bridging the Nature-Culture Divide

SPONSORED BY



**The Cultural
Landscape
Foundation**



WITH SUPPORT FROM



June 4, 2011

Jay Heritage Center, 210 Boston Post Road, Rye, NY 10580
tel (914) 698-9275 -or- www.jaycenter.org

Register for Symposium

www.tclf.org

Photo © Alex S. MacLean

CIRCLE 414 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-414](http://INFO.HOTIMS.COM/34634-414)

More at magazinesdownload.com or ebook-free-download.net

Du Mor[®]
SITE FURNISHINGS



Function that endures.

Quality, Style, Function...Du Mor[®]

800.598.4018

www.dumor.com

MADE IN THE U.S.A.



CIRCLE 63 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-63](http://INFO.HOTIMS.COM/34634-63)

Enhance your landscape with the natural elegance of Cavawood wood poles. Wood is a renewable resource and an energy wise alternative to metal poles. Cavawood poles are made with Alaskan Yellow Cedar wood which is naturally resistant to decay and insects without the use of any chemical preservatives. The poles are tapered, laminated beams for exceptional strength. The aluminum base incorporates an anchor base and wiring compartment for a trouble-free installation.



CAVAWOOD

ARCHITECTURAL WOOD POLES

Manufactured in Colorado of locally sourced materials
720 389.6618 www.cavawood.com

CIRCLE 271 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-271](http://INFO.HOTIMS.COM/34634-271)



NATIVE ANALOGUES

MINNEAPOLIS INSTALLS A TRIO OF VEGETATED ROOFS ON DOWNTOWN PUBLIC BUILDINGS.

BY ADAM REGN ARVIDSON, ASLA



ABOVE

The 113,000-square-foot green roof on the Target Center arena is one of three such roofs on downtown Minneapolis public buildings.

IMAGE CREDIT

Courtesy Kestrel Design Group, Inspec, and Leo A. Daly; photo © 2009 Bergerson Photography

Amid the concrete and asphalt of downtown Minneapolis is a bit of native Minnesota prairie. It includes such inhabitants as prairie smoke, little bluestem, prairie dropseed, and prickly pear cactus (yes, prickly pears are found in Minnesota). It was built in 2006, and in late 2010, there was almost no bare soil to be seen. The plants were between two and three feet tall, and the partridge pea, allium, and purple prairie clover were showing their sculptural seed heads. But that's to be expected these days; prairie restorations, after all, are commonplace now. What's unusual about this one is that it is growing in four inches of mostly inorganic planting medium

on top of the Minneapolis Central Library. This is a prairie in the sky.

And it's not the only one in downtown Minneapolis. In 2008, a 5,000-square-foot green roof was installed on the Minneapolis City Hall: an unusual courtyard roof that is almost always in the shade. And in the fall of 2009, 113,000 square feet of sedums and native prairie species were installed on the Target Center, a massive arena where the Minnesota Timberwolves and WNBA Minnesota Lynx play basketball. These three roofs are on public buildings that have extremely varied site conditions and feature native prairie species right along with—in fact,

dominating—the oft-used sedums and other succulents. And they are within blocks of each other.

In 2010, all three roofs were thriving, even the Target Center roof, which had barely one growing season under its belt. Together, these three roofs, though certainly not as well recognized as examples in oft-written-about Chicago or Portland, show how green roofs can be implemented in some very unusual locations.

All three are largely the work of Kestrel Design Group and its founder, the landscape architect Peter MacDonagh, ASLA. The first to be built was the



Leading Edge **LED** technology

LEGENDARY KING QUALITY



K902 Shown

Dedication to innovation, advanced technology and excellence in engineering has led to a comprehensive line of industry-leading outdoor LED fixtures. Style and performance, uniquely King Luminaire.

A highly efficient line of post top, pendant and area lighting fixtures offering:

- 5x the usable life of HID fixtures
- Instant on/off
- Energy Savings
- Excellent light distribution
- Effective uplight control

For more information on our LED product line, and for a full list of fixtures offered, please visit us at **www.stresscretegroup.com** or email led@kingluminaire.com



King Luminaire • StressCrete • Est. 1953

**STRESSCRETE
GROUP**

Quality People • Quality Products

Northport, Alabama • Atchison, Kansas • Jefferson, Ohio • Burlington, Ontario

CIRCLE 246 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-246](http://INFO.HOTIMES.COM/34634-246)

More at magazinesdownload.com or ebook-free-download.net



BOTTOM

The Central Library green roof is dominated by native bluff prairie plants, like little bluestem, coneflower, and...

INSET

...prickly-pear cactus...

TOP

...which were installed both as seeds and as plugs.

IMAGE CREDITS

Courtesy Kestrel Design Group

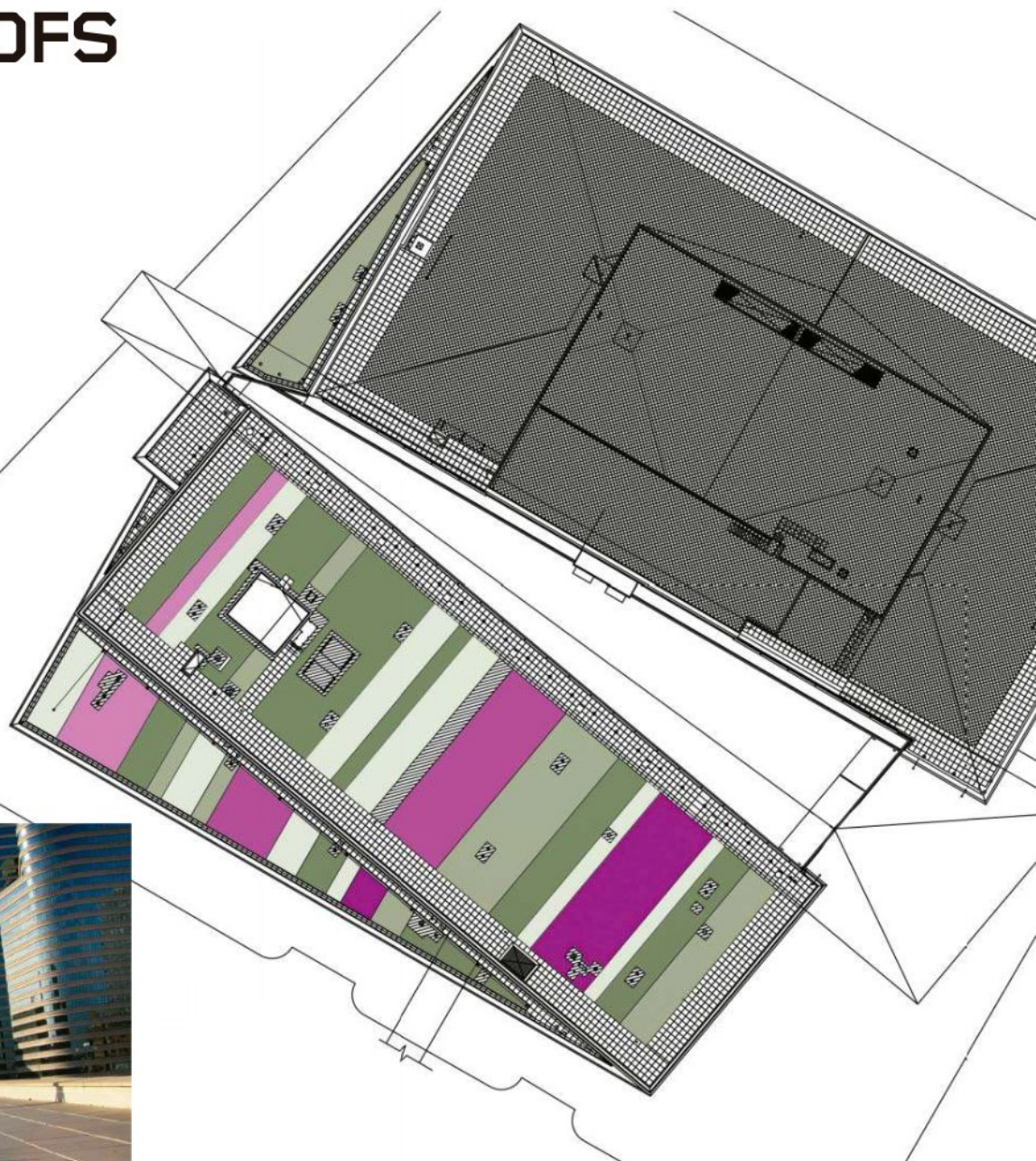
library. Kestrel wasn't involved in the initial discussions about the building (designed by Cesar Pelli of Pelli Clarke Pelli Architects with local firm Architectural Alliance), and, in fact, the green roof (which is on three separate roof spaces) almost never happened. It took advocacy and eventual funding from the Mississippi Watershed Management Organization to add the vegetation to the plans just before construction began. The native plants, of course, make the roof fairly unusual, but even more challenging, according to MacDonagh, was the varied site conditions on the three

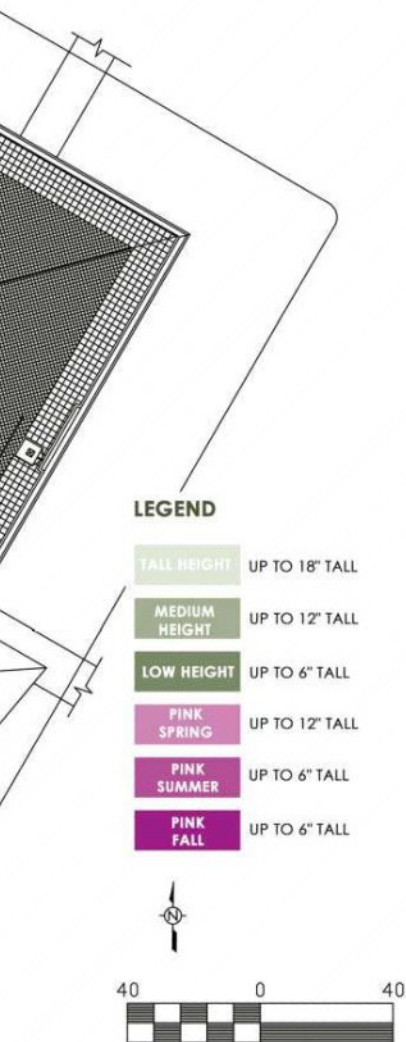
different roofs. The 18,000-square-foot fifth-floor roof would be typically wind-swept and dry. The 1,000-square-foot northwest-facing triangular wedge on the second floor would only get four hours of sunlight per day. And the 3,000-square-foot south-facing second-floor roof would have four stories of glass reflecting sun down onto it. "There are about 1.3 suns shining on that roof," says MacDonagh.

Such varied and difficult conditions drove Kestrel to seek what MacDonagh calls an "analogous native landscape." That means he looked around the state to find an actual ecosystem with conditions similar to those on top of the library. He found a dolomite bedrock bluff prairie in the southeastern part of the

state. This rugged landscape has shallow soil over limestone bedrock and is wind-swept, dry, and hot—great conditions for the prickly pear that grows there.

The green roof cross section at the library is fairly typical: a built-up roof membrane, a drainage mat, dimple board, and planting medium. The medium is four inches thick and includes a drip irrigation system in the middle of the cross section. The library has five rainwater storage tanks in the basement, totaling 7,500 gallons, for roof irrigation. Widely spaced sprinklers supplement the drip irrigation when needed. The irrigation system can be best described as stingy. "We want to stress the system," says MacDonagh. "We don't want to encourage weed





growth.” The system has little solenoid sensors above the soil surface that are like electronic stand-ins for plant leaves. They measure how the sun is actually affecting leaf temperature and moisture loss, which can be a better indicator of plant stress than soil moisture content. None of the roofs receives any fertilizer. In essence, rather than create a rich, healthy environment for plants to grow, Kestrel has created a tough natural environment (like a dry bluff prairie), then selected plants that would survive in it.

The shady second-floor triangle of the library, though, was new for Kestrel. The firm has been designing green roofs for years, but, obviously, roofs are usually in the sun. Here, Kestrel

MINNEAPOLIS GREEN ROOF FACTS

MINNEAPOLIS CENTRAL LIBRARY

Owner: Hennepin County Library District

Date installed: 2006

Square footage: 22,000 on three separate roofs

Sun exposure: varied—full sun on upper roof, full and additional reflected sun on southern second-floor roof, part shade on northwestern second-floor roof

Wind exposure: moderate

Planting medium depth: 4 inches

Plant mix: 21 species of sedum, 40 species of native plugs

MINNEAPOLIS CITY HALL

Owner: Metropolitan Building Commission, joint board of the City of Minneapolis and Hennepin County

Date installed: 2008

Square footage: 5,000

Sun exposure: full shade to part shade

Wind exposure: moderate, swirling

Planting medium depth: 4 inches

Plant mix: 42 species of native plugs

TARGET CENTER

Owner: City of Minneapolis

Date installed: Fall 2009

Square footage: 113,000

Sun exposure: full sun

Wind exposure: high

Planting medium depth: 3 inches

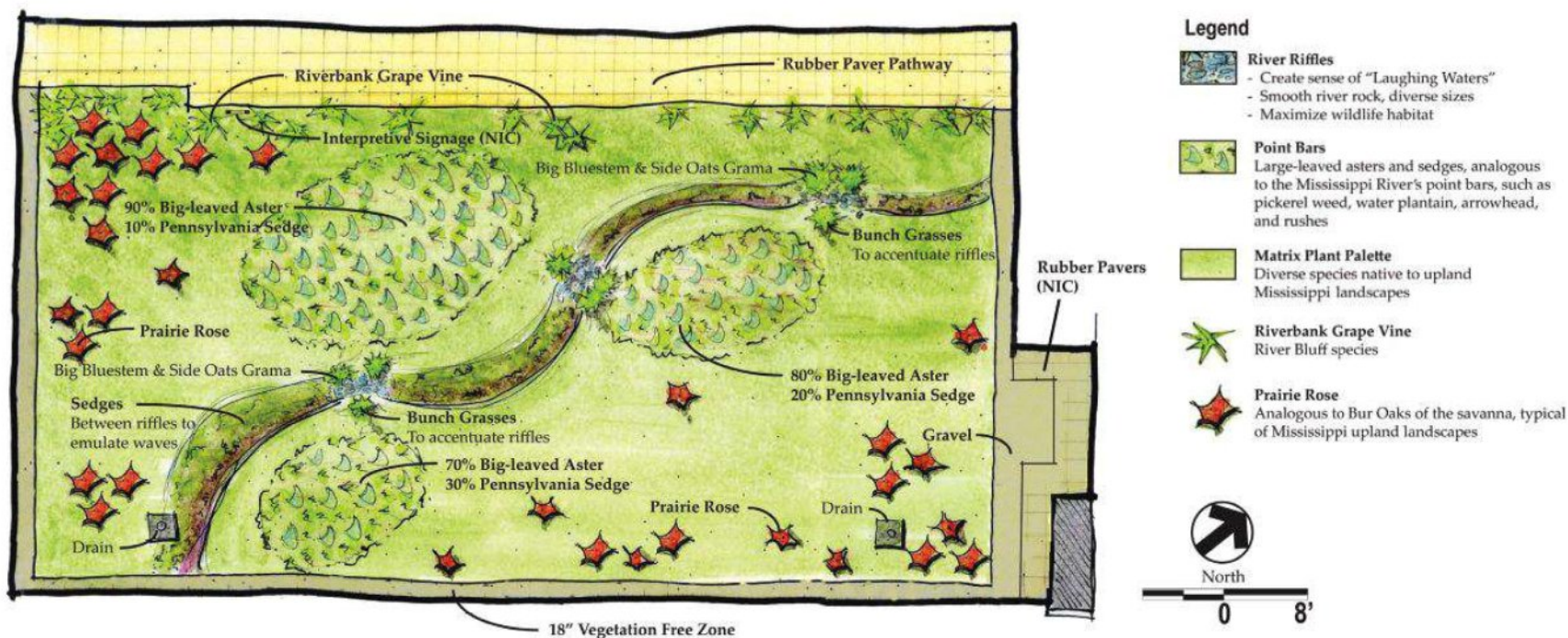
Plant mix: 12 species of sedum, 22 species of native plugs, 16 species of native seed

adjusted the plant mix, including more “shady cliff” species like coralbells (*Heuchera*) and roundhead bush clover (*Lespedeza capitata*). Of course the watering requirements were different, too, but the sensitive irrigation system mitigated that. “This was our first foray into the shade,” says MacDonagh, “but once we nailed it we decided to go for the gusto at city hall.”

KESTREL HAS CREATED A TOUGH NATURAL ENVIRONMENT, THEN SELECTED PLANTS THAT WOULD SURVIVE IN IT.

The green roof on the Minneapolis City Hall (a building actually shared by the city and Hennepin County) is the strangest of these three Minneapolis roofs. The building dates from the 1890s, and its chunky gray-pink granite mass takes the form of a square with an open space in the center. From the air, it’s a rectilinear doughnut, and in the hole is a low roof that all the inward-looking offices can see. The green roof is here, somewhat buried in the bowels of the building. Early in the design process, a sun study found that one-third of the roof got no direct sun at all—ever. The rest tops out at about four hours per day.

The city hall green roof started out in 2004 as a simple waterproofing project. Jose Cervantes, director of the Municipal Building Commission, a joint city-county agency that oversees the building, remembers that when he presented the project for funding, the mayor of Minneapolis and several city council members and county commissioners became interested in installing a green roof. So Cervantes and his staff went to Chicago. “Without having any knowledge or experience with green roofs,” he says, “we set about educating ourselves.” At the time Cervantes was skeptical about the possibility of installing a green roof in such a



difficult location, in the middle of downtown, essentially within the building (the library roof had not yet been installed). After seeing the Chicago City Hall, however, also a historic building hemmed in by skyscrapers, he changed his perspective. "Our site conditions were no worse than [Chicago's]," he says. "If you could [build a green roof] in Chicago, you could do it anywhere."

Cervantes hired Kestrel to design some early concepts, at about the same time the firm was working on the library. Those ideas were grandiose, involving a flowing watercourse, green walls on the building facades above the low roof, weird vine trees, and what look in the drawings like topiary archways. Due to lack of funding and an erroneous structural report, Kestrel toned down the roof to the simple palette of native plants there today (there is still a "river" of sedges that gets lost in the rest of the vegetation, and several gravel "ponds" that look somewhat unintentional).

The performance of the vegetation, however, is stunning. Kestrel's "analogous native landscape" is a north

side moist cliff: shady and wet, with shallow soils. Minneapolis gets just under 30 inches of rain per year, right about in the middle, nationally. The issue here is more about runoff than water scarcity, and several cities in Minnesota and the Midwest have begun charging separate utility fees for stormwater management in an effort to make homeowners and commercial



INSET

Originally a shady, gray interior courtyard...

LEFT

...the Minneapolis City Hall green roof today is a colorful mix of native shade-loving plants.

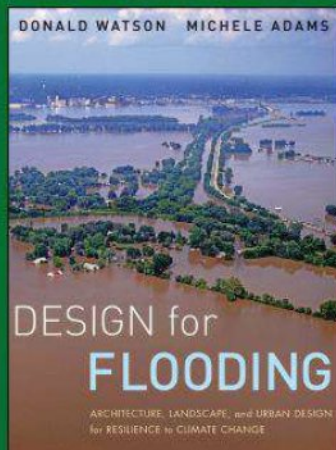
TOP

Though it looks like a simple forest understory planting, the plan shows the subtle design scheme of a river of sedges, punctuated with "point bars" of asters and scattered prairie roses.

IMAGE CREDITS

Courtesy Kestrel Design Group

Expand your professional terrain.



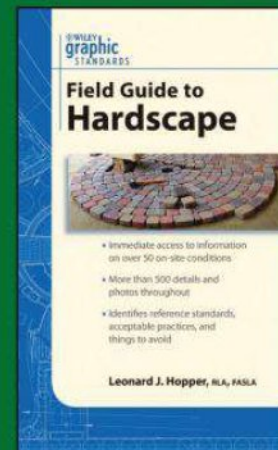
978-0-470-47564-5

Strategies for planning and designing for water sustainability and natural disasters.



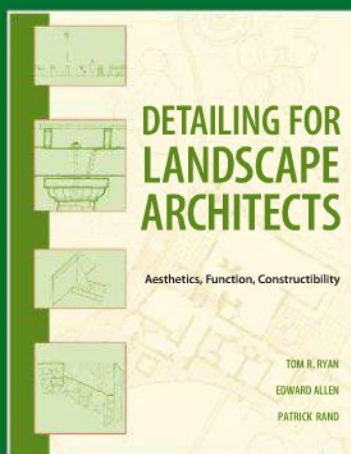
978-0-470-56417-2

A practical, single-source guide to successful strategies for landscape architecture research.



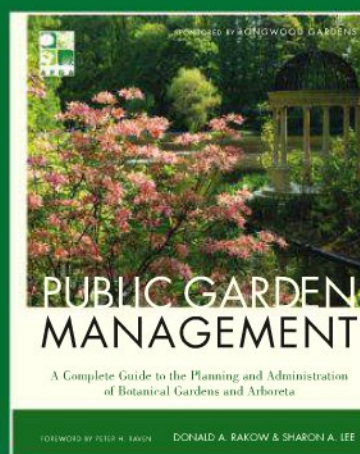
978-0-470-42965-5

Fast access to the information you need when you're on-site and under pressure.



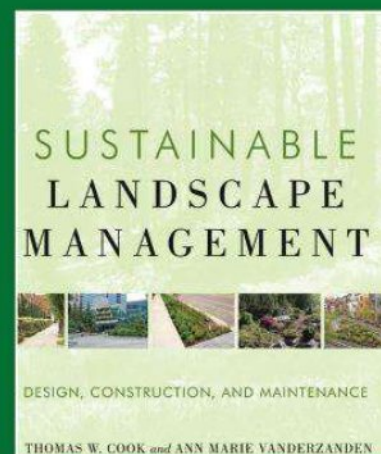
978-0-470-54878-3

Details areas of landscape architectural detailing—aesthetics, function, and constructibility.



978-0-470-53213-3

The complete reference to achieving a sustainable and profitable public garden.



978-0-470-48093-9

The complete guide to best practices in the sustainable management of landscapes.

WileyCPE is now a registered LA CES™ provider
Access essential CE courses, learning units and LEED exam prep
WILEYCPE.COM/LANDSCAPE



Scan here for more WILEYCPE information. ▶



For more information visit wiley.com/go/landscapedesign
For media inquiries, visit www.wiley.com/go/press

WILEY
Now you know.

Wiley and the Wiley logo are registered trademarks of John Wiley & Sons, Inc. All other trademarks are the property of their respective owners.

CIRCLE 51 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-51](http://INFO.HOTIMS.COM/34634-51)
More at magazinesdownload.com or ebook-free-download.net



ABOVE

The Target Center green roof is the most sedum-dependent of the three. It has a pattern of leaf veins, which are paver walkways necessary to prevent wind uplift.

INSET

The vegetation mats were custom grown with a fabric mesh within the soil layer.

IMAGE CREDITS

Courtesy Kestrel Design Group, Leo A. Daly, and Inspec

properties more aware of their impact on streams and lakes. Minneapolis actually has to pay its own stormwater fees, something that figured into the decisions to install green roofs on city hall and the Target Center. In the Midwest, green roofs can create a beneficial closed-loop system. Water is collected from the conventional roof portions of buildings and used to irrigate the green roofs. That water nourishes the green roof plants between rainstorms but is also kept out of the stormwater system.

At city hall, rain from the building's upper metal roofs (about an acre of surface) feeds into a 10,000-gallon cistern on an intermediate roof that is 53 feet above the green roof. The cistern feeds the drip irrigation system by gravity alone. No pumps or energy are required to irrigate the green roof, and the irrigation system is divided into four quadrants to ensure areas with different sun access get different watering regimes. There is room for a second cistern if funding ever materializes.



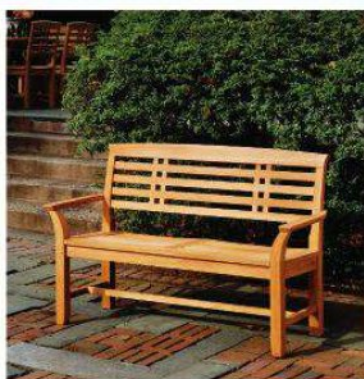
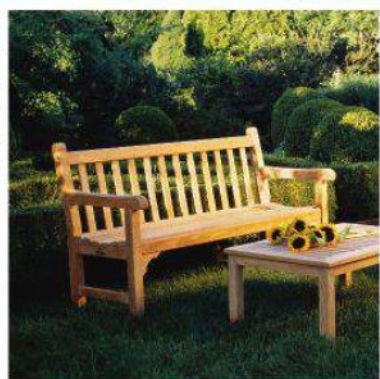
The cross section here is similar to that on the library (four inches of planting medium over the requisite drainage layers), but the unique element is how the soil got to the roof. It was blown in, like insulation, or like roadside erosion control. This was the first local instance of this process, though since it was done here in 2008 it has become common practice nationwide. It was especially critical at the city hall because the roof is not accessible from adjacent streets; the only other options would be to lift the material by crane up and over the five-story doughnut of the building or to hand cart it in through the lobby. The technique was later used on the Target Center, whose extremely high, inaccessible roof might have become cost prohibitive without it.

The city hall roof also includes a jute blanket on top of the soil to mitigate the swirling winds that funnel down into the center of the building. But those winds are nothing compared to the gales encountered on the Target Center roof. The arena sits at the western edge of downtown, in the face of prevailing gusts. The roof's sheer size, the wind, and the fact that a green roof had never been built on an arena before made considering one a tough sell.

That project began, like the city hall project, with a need to reroof the arena at the end of the roof's 20-year life cycle. Architecture firm Leo A. Daly, which had a standing contract with the city for these types of renovations, was asked to consider options for the reroofing. Leo A. Daly brought Kestrel on board to add, at the city's request, green roof options to the mix. Because the cost-benefit timeline was set at 25 years (instead of 20), the green roof became a cheaper option because it would not have to be replaced at 20 years like a conventional roof. It was selected by the city, and the two firms, joined by roofing specialist Inspec, began to design this behemoth.

Because of the size of the roof, the team planned to custom grow vegetated mats that could be cut, lifted to the roof, and rolled out. They decided to grow those mats on top of a geotextile erosion control fabric. As the 10 species of sedum sprouted in a field near Washington, D.C., their roots got entangled in the mat, essentially locking plants and soil and fabric together. When the mats were ready to be harvested, the grower cut a one-inch thickness of soil that included the mat and rolled the pieces up like sod for transport to Minneapolis.

Once on the roof and unrolled, the edge of one strip of sedum sod was tied to the neighboring one by attaching



THE BENCH PLACE TO RELAX.

KINGSLEY~BATE™

ELEGANT OUTDOOR FURNITURE

High Point • Chicago

7200 Gateway Court, Manassas, Virginia 20109 USA

☎ 703.361.7000 ☎ 703.361.7001 www.kingsleybate.com

CIRCLE 303 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-303](http://INFO.HOTIMS.COM/34634-303)

KB1146

IMAGE CREDIT

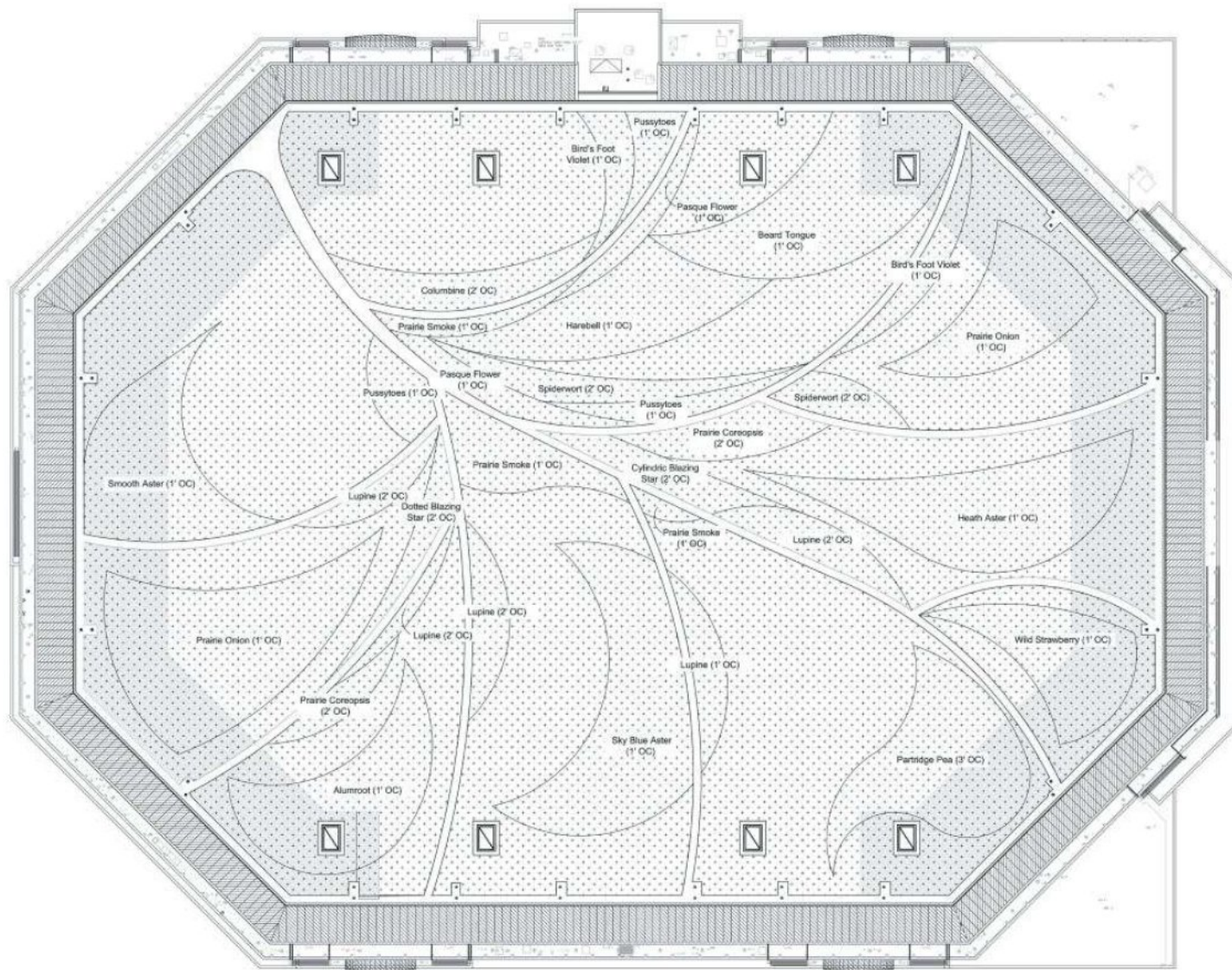
THE PAVER
PATHWAYS ARE
HEAVY ENOUGH
TO SATISFY
WIND UPLIFT
REQUIREMENTS.

The rest of the cross section includes two more inches of (blown in) expanded shale planting medium with drip irrigation within it, a combination filter membrane and drainage layer, and a leak detection system that uses electrical currents to pinpoint water that seeps through the roof.

Though the Target Center roof is largely made up of the custom-grown sedum sod, the design team did add plugs and cuttings of native poor-soil prairie species, like prairie smoke, coreopsis, wild strawberry, and pussytoes. This diversity, says MacDonagh, brings some rare species (like the pussytoes) into downtown Minneapolis, and also brings ad-

It also brings beauty. Though the library green roofs can't be seen from everywhere in the building, there is a nice row of tables on the west side of the second floor where the prairie grasses wave in the wind outside the window. City hall workers seem to love the seasonally changing display of flowers and seeds (and buzzing insects), even if they can't go out there for lunch as originally planned. And those concrete paver pathways on the Target Center look like the veins of a leaf—a whimsical bit of green on display for one of the regular airport approach routes. ●

ADAM REGN ARVIDSON, ASLA, IS A REGULAR CONTRIBUTOR TO *LAM* AND FOUNDER OF TREELINE, A DESIGN/WRITING CONSULTANCY IN MINNEAPOLIS.



STONE MANOR

LIGHTING

Collection



[www.STONEMANORLIGHTING.COM](http://www.stonemanorlighting.com) | 888-534-0544
BRONZE/COPPER/BRASS | JEWELS FOR THE HOME & GARDEN

CIRCLE 478 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-478](http://INFO.HOTIMS.COM/34634-478)

More at magazinesdownload.com or ebook-free-download.net



LIGMAN

LIGHTING USA

Under Water
Inground
Recessed Wall
Surface Wall
Ceiling Luminaires
Bollards
Light Column
Post Tops
Pendant Luminaires
Street and Area Lighting
Floodlights



Ligman Lighting USA
3302 NW 211Th Ter
Hillsboro Oregon 97124 USA
Tel :503 645 0500

This company is passionate about what it does

www.ligmanlightingusa.com

CIRCLE 474 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-474](http://INFO.HOTIMS.COM/34634-474)

**Innovative
Cost Effective
High-Quality**



Making
Environmentally Friendly
Maintenance a

Priority

Porphyry Stone

Type of volcanic rock used by ancient civilizations, such as the Romans.

Its high compression breaking point and heavy traffic resistance make it one of the most durable paving and facing materials. Today this Stone is mostly used by the building construction industry for flooring, paving and traditional and ventilated-wall facing.



ArquiGreen

The natural stone hardscaping company

East Coast: Arquigreen Corp.
6130 NE 4th Ct, Miami FL 33138
Phone 305-778-5961
www.arquigreen.com
arquigreen@bellsouth.net

West Coast: Porphyry USA
824 E Anaheim St, Wilmington CA 90744
Phone 310-830-9700
www.porphyryusa.com
porphyryusa@att.net

Residential
Comercial
Public Roads
Driveways
Pool Decks
Wall cladding
Provision & installation
Turn Key projects
Quarries located
in Argentina & Italy
www.odorizzi.it

CIRCLE 472 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-472](http://INFO.HOTIMS.COM/34634-472)

More at magazinesdownload.com or ebook-free-download.net

CLOUD CONTROL

VIRTUAL STORAGE COULD CHANGE THE WHOLE DESIGN OFFICE.

BY JAMES L. SIPES, ASLA



When it comes to his firm's computers, sometimes Chris Overdorf, ASLA, feels like a traffic cop in the middle of an eight-way intersection. "It seems like all I do is manage the flow of digital information for projects, marketing, client correspondence, and internal firm management," says Overdorf, a partner in Ervin Lovett Miller in Seattle. He originally studied computer science at West Point before shifting to landscape architecture and is recognized as one of the profession's computer gurus. But Overdorf has tired of spending so much of his time managing his firm's computer system and is looking for a way to focus more time on design and planning. Fortunately for him and other landscape architects, there may be some relief in cloud computing.

Cloud computing is computing carried out over the Internet. Instead of working from your hard drive or

a server within your office, you use the Internet to access software, computing power, and storage space on computers that are somewhere out there in "the cloud." Where they are is unimportant. These computers could be in another city or even another country. They belong to someone else. Overdorf is one of a small number of landscape architects who are already implementing cloud computing, and he suggests that others would benefit from what the technology has to offer.

Many of the benefits associated with cloud computing come from the ability to run software over the Internet (a practice referred to as "software on demand" or "software as a service"). Companies such as Google and Microsoft are already offering cloud-based applications that can be used for word processing or creating spreadsheets.

But of all the changes associated with cloud computing, the potential for off-site storage of digital information could have the most immediate effects on the way landscape architects work. It could conceivably set firms free from the responsibilities of setting up servers, handling maintenance, backing up digital data, or securing it—and from some of the costs.

Storing your data in your office is actually very cheap, Overdorf observes. "It is the cost of managing and maintaining it that adds up, and the costs go far beyond what you are paying an IT administrator or consultant." An amazing amount of time is spent organizing data, looking for files, and trying to recover lost or damaged data. At small firms that can't afford an in-house information technology (IT) consultant, much of that work is being done by the firm's most expensive employees.

IMAGE CREDIT

© iStockphoto.com/
Devy Masselink

STONELIGHT®

No more electricity bills...ever!

- Solar concrete bollards, made in the USA
- Batteries can store enough energy to provide 5 nights of lighting without any sunshine in areas that average 5 hours of winter sun
- Energy-efficient 4-watt LED 50,000 Hr. lamp producing 40 watts of light
- Superior durability of pre-cast concrete far outlives metal light fixtures in even the harshest climates
- U.S. patented design
- Microprocessor controls light level
- Motion detector included
- Standard size: 12" Sq. x 48" H
- 7 Standard styles and 11 standard colors
- Customization and personalization available

Contact Stonelight LLC:

800-982-2006 or info@stonelight.com

www.stonelight.com

NEW Solar Bollards



CIRCLE 466 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-466](http://INFO.HOTIMS.COM/34634-466)

More at magazinesdownload.com or ebook-free-download.net

Many small landscape architecture firms have great intentions when it comes to backing up their digital data. "But once tight deadlines loom, good management of digital data is often the first thing to go," Overdorf says.

Currently, most firms that set up their own computer server as a local network or intranet typically buy more storage than they will need right away and amortize the expense over a number of years to make the pur-

"defense-in-depth" approach, which involves adding multiple layers of security. This includes encryption strategies that are much more robust than those typically used on local servers.

WITH CLOUD COMPUTING, YOU CAN INCREASE DIGITAL STORAGE OR ADD PROCESSING POWER WITHOUT NEW HARDWARE, SOFTWARE, OR STAFF.

One of the big selling points of cloud computing is the quality of data management. For landscape architects, our primary focus is on design and planning; managing data is a necessary evil, but it is not our priority. Cloud service providers focus on data management because that is what they get paid to do. In addition, cloud service providers typically have the best, fastest, and most up-to-date computer equipment to handle massive amounts of data. Customers will also expect that cloud providers continue to have the best hardware and software because data demands will continue to increase.

But for many landscape architecture firms, the most appealing feature of cloud computing may be the flexible capacity it offers. Cloud computing can be a way to increase digital storage capacity or add processing power on the fly without buying new hardware, training new personnel, or installing new software. Everything is modular, so it is easy to only pay for the capabilities you need and add more capabilities or storage space as you go.

chase more affordable. Overdorf used to work at Jones & Jones, and he explains that at one point that firm had 10 or 12 different computer servers that collectively provided digital storage and processing. "There was always a server going out, and a new server going online," he says.

Like all technologies, cloud computing has its risks, too. Security is at the top of the list. Generally, security issues involving cloud computing are similar to those of local computers. Any computer connected to the Internet is susceptible to viruses, spam, malware, identity theft, and other threats, with wireless connections being the most vulnerable.

But Overdorf believes that using cloud technology is actually a more secure way to work with data than the process most landscape architecture firms currently rely on. "Companies that offer cloud services understand the security issues, and if they don't provide a very high level of security they won't be in business for very long," he says. Most cloud providers use what is called a

It is important to remember, though, that there are no guarantees when it comes to the security of your data in the cloud. In 2009, a technical glitch caused Microsoft to lose information that was stored on a cloud server used by T-Mobile Sidekick smartphones. Microsoft issued an apology but was unable to recover the data. Apple suffered similar losses of e-mail messages in late 2009. Google was more fortunate when it lost e-mails, contact information, and folders for more than 40,000 Gmail users; the company said it was able to recover the data.

One of the first questions you should ask when you engage a cloud service provider is how your data is being backed up, and what happens if data is lost. Most cloud service providers use dual servers so that even if one system crashes, the other continues to operate, and you don't lose any data.

Another issue with cloud computing is your data may be temporarily inaccessible at times. For example, a 2011 study by the Radicati Group, a technology market research firm, found that Microsoft Exchange typically has 60 minutes of unplanned downtime per month, whereas Google Apps was unavailable approximately 15 minutes per month. Although this isn't a lot of downtime, it could cause serious problems for a landscape architecture firm



Warren Recreation, Warren, NJ



Benedict Farm Park, Montgomery, NY



Bethesda Park, Lawrenceville, GA



East Roswell Recreation Center, Roswell, GA

Shaping the Future of **PLAY**

When it comes to finding the right playground for your next recreational project, Miracle Recreation is your source for the most innovative and highest quality playground equipment available.

Contact your local Miracle representative, who will assist you in creating your unique Miracle. Our representatives will provide:

- Designs Compliant With CPSC Safety Standards
- Age Appropriate Designs
- Highest Quality Materials
- Challenging, FUN Designs
- Up to Nine LEED Points
- Modular & Customizable Designs
- Free AutoCAD Files
- Free 3-D Renderings
- Free Site Evaluations



HGACBuy



www.miracle-recreation.com

1-888-458-2752



Scan this code to view the Warren Recreation playground structure shown above. Get the free mobile app at <http://gettag.mobi>

GSA# GS07F9713G

SPORTS AND OUTDOOR PLAY EQUIPMENT • POOL SLIDES • SITE AMENITIES

CIRCLE 140 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-140](http://INFO.HOTIMS.COM/34634-140)
More at magazinesdownload.com or ebook-free-download.net

DATA STORAGE SERVICES

THERE ARE NUMEROUS COMPANIES THAT OFFER STORAGE IN THE CLOUD.

- **Egnyte** (www.egnyte.com) provides several online storage options, including one that has 1 terabyte (1,000 gigabytes) for \$49.99 per month. For serious computer users, 16 TB will cost around \$1,500 per month.
- **FilesAnywhere** (www.filesanywhere.com) provides a variety of online storage services for Internet backup, file sharing, secure FTP hosting, and web folders. Prices for FilesAnywhere range from single-user and multiple-user licenses to those intended for corporations. Both Egnyte and FilesAnywhere make it easy to perform backups for both scheduled and real-time synchronization.
- **Livedrive** (www.livedrive.com) is an online storage provider that offers two different packages, Livedrive Backup and Livedrive Briefcase. Livedrive Backup will scan your computers for new files and changes to existing files and automatically back up this data to an online server. Livedrive also provides a service called Briefcase, which stores the files you use most frequently. One of the really cool things about Livedrive is that it appears as a new drive on your computer, so you can use it like you do any other drive except that your data is also saved to an online server at the same time. Livedrive Backup is \$69.50 per year, while Briefcase is \$169.50 per year for unlimited online storage.
- For \$49.50 a year, **IDrive Pro** (www.idrive.com) offers 150 GB of storage space that can be used to back up multiple computers to a single account. For users with greater demands, 500 GB costs \$149.50 for individuals. Businesses can start for as little as \$9.95 a month for 50 GB, and up to \$799.50 a year for 1,000 GB of storage space. Another cloud storage option is called ADrive (www.adrive.com), which provides 1 TB of online storage at a cost of around \$1,300 a year, and \$12,000 a year for 10 TB of online storage. →

MAKE SURE YOUR OFF-SITE STORAGE PROVIDER SAVES YOUR DATA AT MORE THAN ONE SECURE DATA CENTER.

if the downtime occurs right before a deadline. Most web-based applications offer an uptime reliability guarantee, which refers to the amount of time the service is available. Also, many cloud service providers will store data both on your local hard drive as well as on their online servers so you can keep working if your Internet connection sputters without losing your document. As soon as you are linked again, the data is moved back to an online server.

When evaluating an off-site data storage solution, there are several key requirements to consider, including availability of data, security of data, performance for read/write access, scalability, and cost. One feature you want to look for is “synchronous replication.” With this technology, your data is simultaneously saved on more than one secure data center. That means if one data center crashes or is not available for whatever reason, you can access your data from a different data center. All you know is that there is no interruption in service and you can meet whatever deadline is looming.

Egnyte (www.egnyte.com) is one of several companies that offers synchronous replication as part of its cloud computing services. The company’s Local Cloud is a hybrid cloud storage approach available in three versions:

The “Personal Local Cloud” maintains a local copy of your files on your desktop or laptop, and you can use an external disk drive for extra storage. The “Office Local Cloud” uses a network-attached storage device on your office server, while “Enterprise Local Cloud” is deployed on any existing hardware as a VMware-based Virtual Appliance. For larger landscape architecture firms with multiple offices, or those that work on projects in many geographic regions, the Enterprise Local Cloud is ideal. Egnyte provides several online storage options, including one that has 1 terabyte (1,000 gigabytes) for \$49.99 per month. For serious computer users, 16 TB will cost around \$1,500 per month.

At Sand County Studios, we are using Egnyte’s Local Cloud; a local cloud folder is set up on my laptop’s hard drive, and this drive is synced with a 500 GB online drive managed by Egnyte. Overdorf also uses Egnyte in large part because it allows users to map cloud folders on a laptop, desktop computer, or local server. Having a consistent file structure that doesn’t change is essential for GIS applications, desktop publishing programs, and CAD programs that all work with “referenced” documents linked to a particular file. If the location of the file changes, the data is no longer

SOLID OR HOLLOW?



All UPC Parks playground sculptures, whether it's Rocks & Ropes™, or one of our scores of Creatures, are made out of **SOLID** PolyFiberCrete®, the material that's solid, durable and holds up.

Take a chunk out of PolyFiberCrete and you'll still have PolyFiberCrete.

Solid. Durable. Dependable.



PolyFiberCrete is proudly used in all UPC Parks products.
For best quality and durability choose PolyFiberCrete®


UPC Parks
www.upcparks.com
530-605-2664

CIRCLE 390 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMES.COM/34634-390](http://INFO.HOTIMES.COM/34634-390)

← • **Box.net** (www.box.net) provides 5 GB for free, and a 500 GB business account is available for \$15 a month. There is also an enterprise version that has unlimited storage, but you have to call the company to get a price quote.

• **Wuala** (www.wuala.com) is a free secure online storage service that allows users to store, back up, and access files from anywhere. Users start with 1 GB of storage but can get as much as they want, either by trading idle disk space or by buying additional storage. If that isn't enough storage space, you can buy up to 250 GB for \$289 a year.

• **ZumoDrive** (www.zumodrive.com) is a hybrid cloud storage system that also synchronizes data on your local drive with data saved on an online server. A free ZumoDrive account offers 2 GB of storage, with up to 500 GB available for \$80 a month.

• **Dropbox** (www.dropbox.com) also allows you to sync your files online and across your computers automatically. It provides 2 GB of online storage for free, with up to 100 GB available for \$19.95 a month.

• As part of its Norton suite of tools, **Symantec** provides several options for backing up data online, including Norton 360 (us.norton.com). These tools automatically back up your files to a disc, USB device, or their secured online data centers. The Premier Extension of Norton 360, which costs \$99.95, includes 25 GB of online storage for backing up your most critical digital data.

• **Mozy** (www.mozy.com) is another company that provides online storage for digital archiving. There are two versions of Mozy—Mozy Home and Mozy Pro—with Mozy Pro costing \$3.95 to \$6.95 per month plus \$0.50/GB per month. This pay-as-you-go model allows you to expand or reduce your online storage to meet current needs.

• **Iron Mountain** (www.ironmountain.com) is a vendor that provides digital storage for all the products typically produced by a landscape architecture firm. Iron Mountain has been in business for decades, and they started off providing long-term archiving for paper items, but now include all digital data as well. ●

"DUMMY" TERMINALS FOR CLOUD COMPUTING OFFER THE MOST SECURITY AND THE LEAST FLEXIBILITY.

linked. Egnyte automatically searches through all of the folders you have "linked," or even an entire hard drive, and detects any changes that have occurred. It then synchronizes changes so that your hard drive and the remote storage are exactly the same. Another benefit of this local cloud approach is that you can access files even when there is no Internet connection.

Once you have decided which data storage solution to use for cloud computing, it is time to get connected. Virtually any laptop, desktop computer, or smartphone that has an Internet connection can be used to access the cloud.

Another option is to use a "dummy" terminal, which is basically a computer keyboard and a computer monitor with no hard drive for storing data or computer connections that can be used for USB jump drives or other portable storage devices. Dummy terminals provide the highest level of security, but they don't offer much flexibility for users.

For landscape architects on the go, netbooks may be a better choice than dummy terminals because they provide for a greater level of mobility. Netbooks are small laptop computers that were developed specifically to work with cloud computing. They are very inexpensive, have limited hard drive space, and have built-in Internet connections that boot up in just a matter of seconds. Some of the more popular include Google Chrome notebooks, Yahoo Notepad, Zoho Notebook, and Springpad Notebook.

The idea behind netbook computers is that you can spend less on hardware, software licenses, and maintenance. You can almost think of them as throwaway computers, because if something goes wrong with them you are better off getting a new web-based computer than to spend a lot of money fixing the old one. ●

JAMES L. SIPES, ASLA, IS A SENIOR ASSOCIATE AT AECOM IN ATLANTA AND FOUNDING PRINCIPAL OF SAND COUNTY STUDIOS IN SEATTLE.



The BMP SNOUT® for Stormwater

A High Impact Tool for Low Impact Development

BMP OPTIONS:

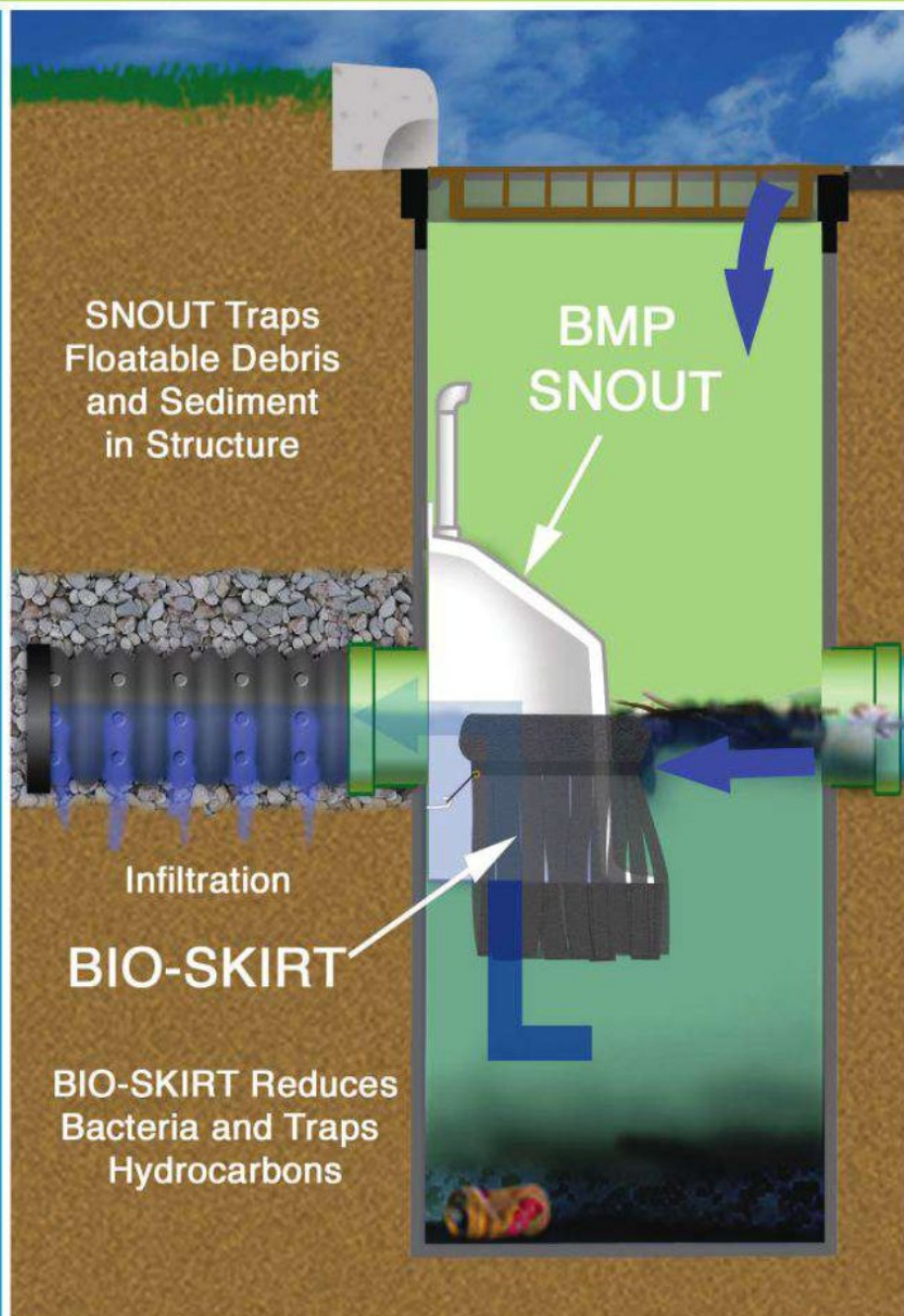


*Add the Bio-Skirt®
for Extra Oil and
Bacteria Removal*



*Use the Stainless
TrashScreen™ for
Full Trash Capture*

US Patents 6126817, 7857966 and
Canada Patent 2285146, others pending



Good designs reduce runoff and create beautiful, healthy spaces. Our designs help to sustain those spaces by controlling gross solids, trash, oils and bacteria.



More than
45,000
SNOUTs in
service!

CIRCLE 473 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-473](http://info.hotims.com/34634-473)

Best Management Products, Inc.
800-504-8008 **www.bmpinfo.com**

More at magazinesdownload.com or ebook-free-download.net

Diamond Spas

CUSTOM STAINLESS STEEL, COPPER & BRONZE AQUATIC PRODUCTS

◆ **RESIDENTIAL** ◆ **COMMERCIAL** ◆ **SUSTAINABLE**

◆ Spas ◆ Swim Spas ◆ Swimming Pools ◆ Cold Plunge Pools

◆ Waterfeatures ◆ Kitchen & Bath

◆ **BUILT TO CLIENT SPECIFICATIONS** ◆ **DURABLE** ◆ **ARTISTIC**



1.800.951.SPAS (7727) 720.864.9115 FAX 720.864.9120

www.diamondspas.com spasales@diamondspas.com

CIRCLE 207 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-207](http://INFO.HOTIMS.COM/34634-207)



SELUX offers architecturally designed, high quality luminaires including Dark Sky compliant, LED, and solar powered lighting systems. In cooperation with energy conservation agencies, municipalities, concerned contractors, engineering groups and others, at SELUX we strive to support and develop sustainable technology, products and practices.

selux.com/usa
(800) 735-8927



CIRCLE 186 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-186](http://info.hotims.com/34634-186)

More at magazinesdownload.com or ebook-free-download.net

se'lux
Light. Ideas. Systems.



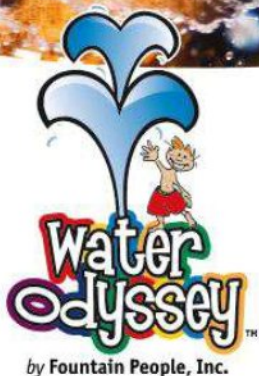
Keep your facilities
full of Life, & full of Kids.

**Fun Forms™ can accommodate any theme
through bright colors, multiple water effects, and interaction.**

From Aqua Spouts™ to Sprayers & Slides, Fun Forms™ captures the imaginations of toddlers to teens. With Over 240 play elements divided between 7 themes, Fun Forms™ is changing the face of aquatic play. Fountain People design personnel work with Architects, Landscape Architects, Aquatic Consultants, and end users around the world to develop new innovative wet play environments and equipment.

Aqua Spouts™ • Aqua Sprayers™ • Aqua Slides™ • Hover Pads™

Contact Us: 512.392.1155 | www.waterodyssey.com



arcat.com

The most comprehensive building product libraries.



- **1554 Specifications**
- **267 SpecWizards**
- **5388 BIM Objects**
- **7294 CAD Details**
- **4188 Green Reports**
- **FREE!!**
- **NO REGISTRATION**

SpecWizard is a registered trademark of ARCAT, Inc, patent pending.

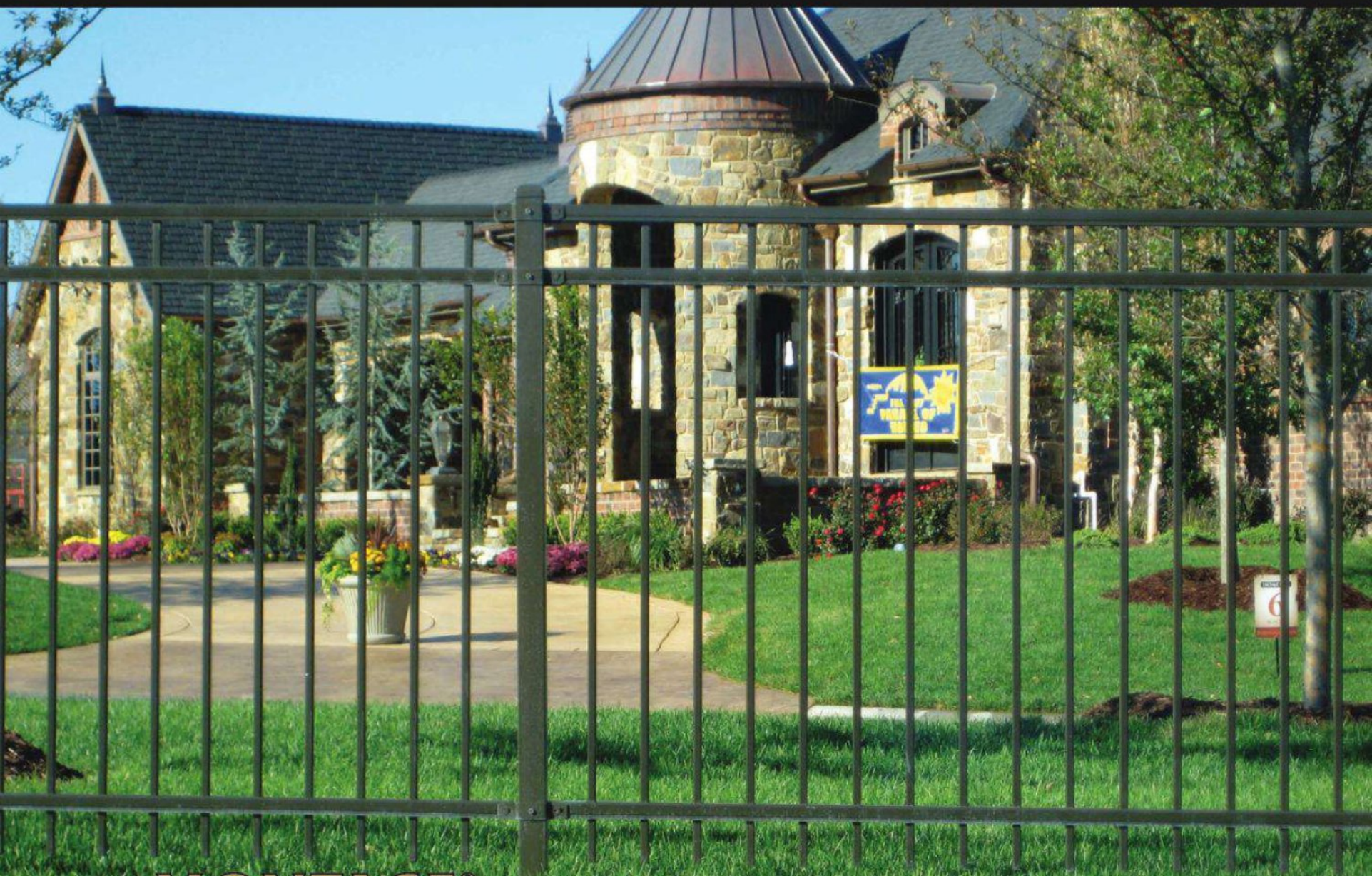
ARCAT®

www.arcat.com

CIRCLE 119 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-119](http://info.hotims.com/34634-119)

More at magazinesdownload.com or ebook-free-download.net

#1 Specified Fence for Landscape Architects



MONTAGE®

- Fusion-welded for durability
- E-coated maintenance free finish

Visit Us at
AIA Expo Booth #524



AMERICAN
OWNED



QUALIFIES FOR
LEED POINTS



MAINTENANCE
FREE

Call us today or visit our website!

AMERISTAR FENCE PRODUCTS
1555 N. MINGO RD.
TULSA, OK 74116

AMERISTARFENCE.COM



PH. 800-321-8724

MKTG@AMERISTARFENCE.COM

WWW.AMERISTARFENCE.COM

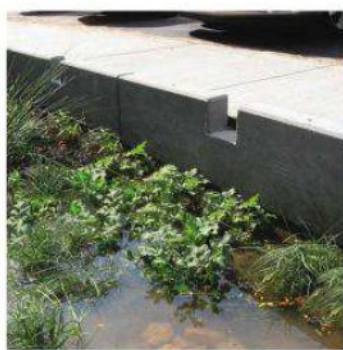
CIRCLE 7 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-7](http://info.hotims.com/34634-7)



Modular Rain Garden

| www.frenosystems.com

Unlimited Design Options • Rapid Construction • Rain Gardens Made Easy



Rain Gardens Made Easy. Simply put, that's the logic behind this modular precast system. Freno™ is designed to provide higher levels of finish, durability, and flexibility along with quick, simple installation at a lower cost than comparable cast-in-place systems. Freno™ allows rain gardens to be more easily incorporated into urban and residential settings, helping to reduce stormwater run-off, improve water quality and enhance the surrounding environment. For more information, visit www.frenosystems.com.

Rain Gardens Clean Water Naturally

Effective and low maintenance, they use the same natural processes that pre-development eco-systems employ to treat and filter stormwater.



Nationwide Availability

800.789.0872

CIRCLE 462 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-462](http://INFO.HOTIMS.COM/34634-462)

at magazinesdownload.com or ebook-free-download.net



OFFI HUGO POT

Designed by Megasii Design Group in Hong Kong, the Hugo Pot will display a favorite plant while brightening an outdoor space. The Hugo Pot is made of rotationally molded plastic and has a replaceable compact fluorescent bulb. It comes with a water drain system and can be used indoors as well as out. The tall version is 28 inches high by 18 inches wide, and the short version is 22 inches high by 16 inches wide. •

FOR MORE INFORMATION, VISIT WWW.OFFI.COM.

IMAGE CREDIT

Courtesy Offi

BRIGHT LIGHTS, BIG IMPACT

BY LISA SPECKHARDT



I-LIGHTING'S OUTDOOR STAIRLIGHTING SYSTEM

Outdoor Stairlights by I-Lighting can make stairs safer while keeping electric costs down with low-voltage LED lights. Because these LED lights stay cool to the touch, they are less attractive to flying insects that are primarily attracted to heat, and they're safer around children and pets. A PhotoEye sensor automatically turns the lights on at dusk and off at dawn. Stairlights are available in white or black. •

FOR MORE INFORMATION, VISIT WWW.I-LIGHTINGONLINE.COM.

IMAGE CREDIT

Courtesy I-Lighting LLC

LET IT SHINE

When a public or residential landscape will be used after dark, its lighting design should be among the first considerations. Integrated into a design, lighting can transform a space into a warm and welcoming outdoor room. Some fixtures are chosen to effectively light large public spaces, such as the Ratio 1.5 Luminaire from Tersen Lighting. Others, like Royal Botania's 60T, shine on smaller spaces and bring indoor comfort outdoors. The Irony fixture, from Royal Botania, can shed some light on an outdoor path, and I-Lighting's Outdoor Stairlighting System can make stairs safe to negotiate after sundown. And sometimes light can just be decorative, as with the gentle glow of Offi's Hugo Pot (\$249 for the short version, \$299 for the tall), which is perfect for a patio or deck.



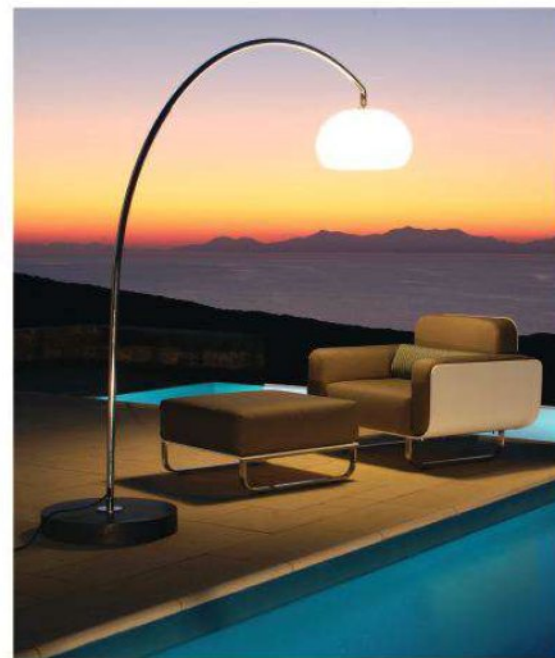
ROYAL BOTANIA IRONY

The Irony light post by Royal Botania is made of a cast-iron alloy with a small percentage of copper and chrome to prevent oxidation. The result is an even, rust-colored patina that blends well in the landscape. It takes two 20-watt or 25-watt halogen bulbs and comes in two heights: 40 centimeters and 70 centimeters. ●

FOR MORE INFORMATION,
VISIT WWW.ROYALBOTANIA.COM.

IMAGE CREDIT

Courtesy Royal Botania



ROYAL BOTANIA 60T

The arc-shaped 60T lamp from Royal Botania looks like a living room lamp relocated outdoors. Designed by Frank Boschman, the 60T has a granite base, a polished stainless steel arm, and a polyethylene top. It takes a 60-watt bulb. ●

FOR MORE INFORMATION,
VISIT WWW.ROYALBOTANIA.COM.

IMAGE CREDIT

Courtesy Royal Botania



TERSEN LIGHTING RATIO 1.5 LUMINAIRE

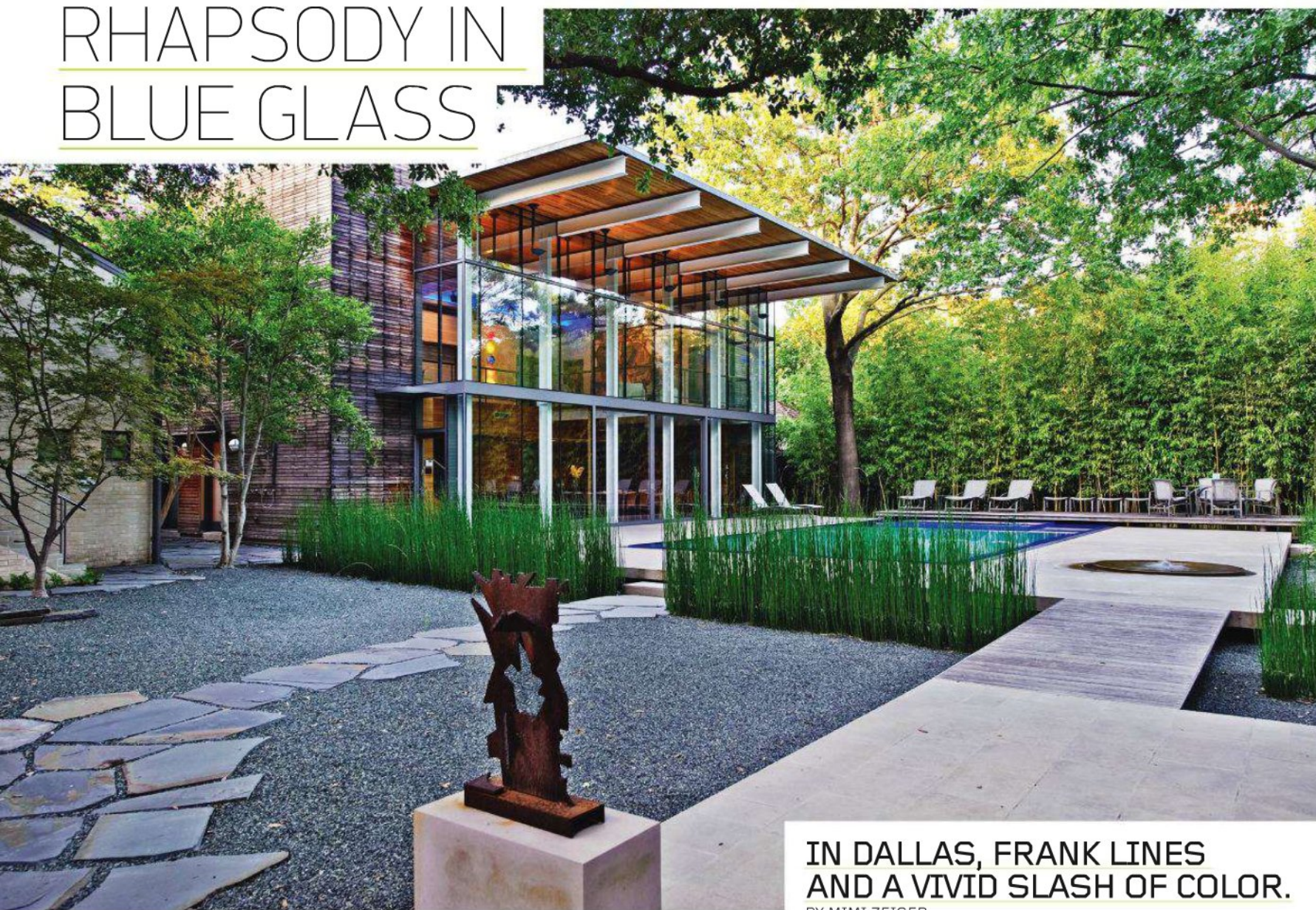
The Ratio 1.5 Luminaire's futuristic look is matched with energy-conserving LED technology. Its 48 LED diodes will provide illumination that is equivalent to a 175-watt metal halide lamp. But because it's an LED, it will shine for 50,000 hours. The fully cast housing with the luminaire, arm, and base is sold as a unit, with the driver or power module mounted in the base for easy maintenance. ●

FOR MORE INFORMATION,
VISIT WWW.TERSENLIGHTING.COM.

IMAGE CREDIT

Courtesy Tersen Lighting

RHAPSODY IN BLUE GLASS



**IN DALLAS, FRANK LINES
AND A VIVID SLASH OF COLOR.**

BY MIMI ZEIGER

ABOVE

David Hocker, ASLA, softens the modern, architectural lines of the pool house pavilion with large Pennsylvania flagstones laid in an organic pattern and surrounded by a crushed gravel bed.

IMAGE CREDIT
James F. Wilson

Highland Park is one of Dallas's older and tonier neighborhoods. At the beginning of the 20th century, Wilbur David Cook, the landscape designer best known for planning Beverly Hills, California, and George E. Kessler laid out wide streets that seem to lollygag through the area. And it is no surprise to learn that the television series *Dallas* was set there—soap opera drama acted out within stately homes shaded by mature, leafy trees. However, it's not

the first place you'd expect a modern landscape design steeped in sustainability for the long term.

David Hocker, ASLA, is changing that. His design for the pool house garden grew out of a careful analysis of the site conditions and a close collaboration between his firm, Hocker Design Group, the architect Gary Cunningham, and the clients, Dana and Charles Nearburg. The project began

in 2005, when the Nearburgs bought the lot next door to the house they'd lived in since 1993. Three elements organize the garden: the pool house, the adjacent pool, and a six-foot-high gabion wall—a 42-foot-long stainless steel armature filled with bright blue slag glass. The glass wall sits back from the street and aligns with the front door of the existing house; pivoting ipe-plank doors allow garden access. With lights embedded in its



Laying the groundwork for greener building.

Belgard Environmental is committed to helping you bring sustainable solutions to life with the largest collection of permeable hardscapes in the industry. Our dedication to quality, innovation, and creativity is second-to-none. Simply put, when you're ready to lay the groundwork for project success, Belgard Environmental is the natural choice.

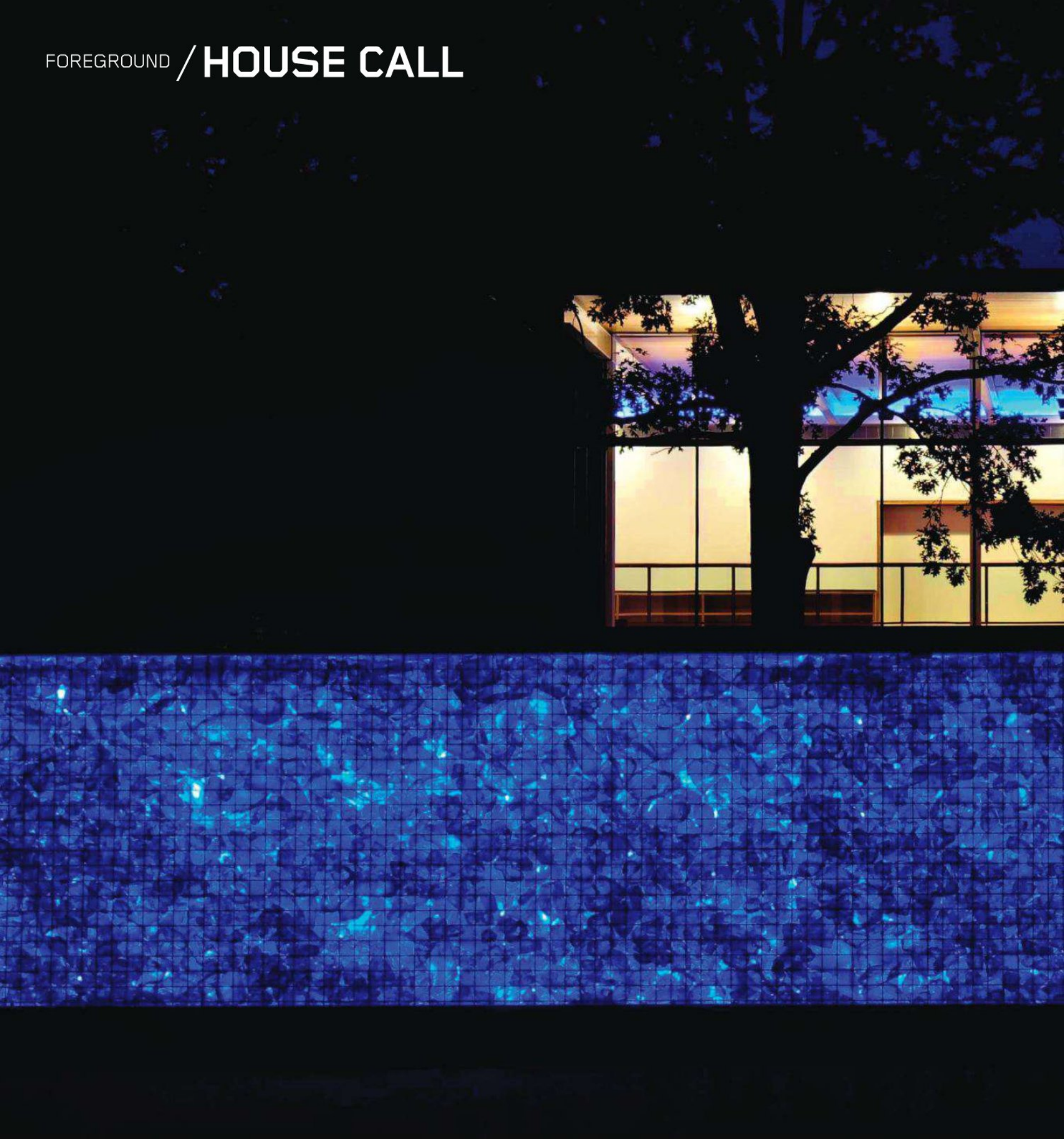


Call 1-877-BELGARD for your free 2011 catalog, or visit belgarddesignpro.com to discover a wealth of resources, including technical specifications, case studies and more.

CIRCLE 202 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-202](http://INFO.HOTIMS.COM/34634-202)

More at magazinesdownload.com or ebook-free-download.net

FOREGROUND / **HOUSE CALL**





HERE

With light fixtures embedded in its base, a 42-foot-long steel armature filled with recycled blue slag glass transforms at night from a garden wall into a glowing, Donald Judd-inspired sculpture. Blue lights in the pool house continue the theme.

IMAGE CREDIT

James F. Wilson

SITE PLAN

- 1 GABION WALL
- 2 PATIO AND FIRE PIT
- 3 POOL DECK
- 4 FOUNTAIN
- 5 BAMBOO
- 6 SIDE COURTYARD



ABOVE

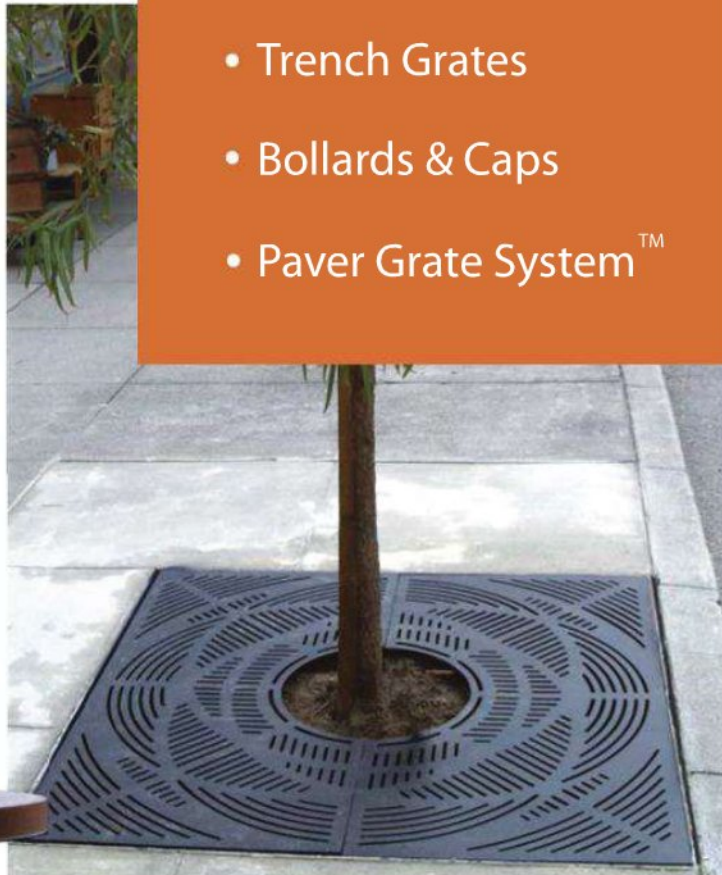
When the sliding pool house doors are open, only an ipe wood threshold breaks the expanse of finished concrete floor that runs from inside to deckside.

IMAGE CREDITS

James F. Wilson, photo;
Courtesy Hocker Design
Group, plan

Leadership by design

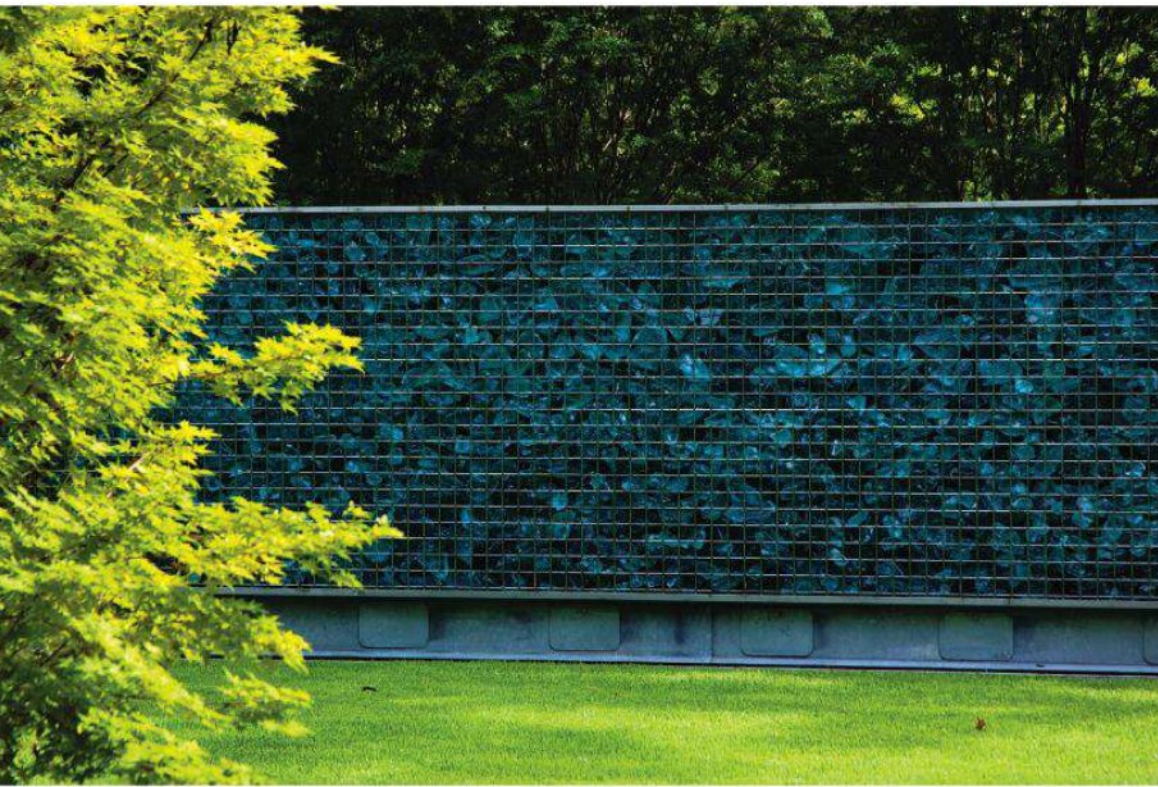
- Tree Grates
- Tree Guards
- Trench Grates
- Bollards & Caps
- Paver Grate System™



www.ironsmith.biz

IRONSMITH

 employee owned



ABOVE
The drama of the blue glass wall is muted during the day, leaving the garden a serene oasis.

RIGHT
A raised ipe wood deck provides a spot for sunbathing, and the extra elevation makes it an excellent lookout from which to survey the landscape.

IMAGE CREDITS
Gisela Borghi



← base, the wall is as much a piece of sculpture as a privacy boundary.

The two-story pool house hosts space for entertaining on the ground floor and an art studio above. Conceptually, it's difficult to separate out the architecture from the landscape. Regulating lines extend from the glass, steel, and ipe wood facade to set up the geometries of the pool deck and planting beds. The result is a smooth transition between inside and outside—the kind of integration you see in the early California modernist designs of Rudolf

Schindler or Richard Neutra. “What I like to think I bring to a project is a very intense understanding of how the built structure and the site respond to each other,” says Hocker, with a touch of Texan drawl. He is a broad-shouldered guy with a brawn about him that belies his gentility. “My work has roots in formal garden design, but it’s not historicist.”

The older Nearburg house has a side courtyard just off the living room, but before construction it was boxed in by the eight-foot-high brick wall that sepa-

rates the two properties. Cunningham and Hocker’s first move was to remove a large section of the wall and position the pool in relationship to the courtyard. “The old space was not conducive to hanging out,” recalls Cunningham. “When we combined the two lots into one, we were able to maximize light into the existing garden.”

Set on a concrete plinth, the pool house is located at the rear of the site to maintain a visual connection between the two structures, but also to keep the integrity of the residential

Designing exactly what you want using only what you need.

That's intelligent.



Introducing water-smart, easy-to-configure Rain Bird® ESP-LX Series Controllers and IQ™ v2.0. Through advanced features and a modular design, the ESP-LX Series makes promoting sustainability easy. You'll be able to select the exact irrigation controls required for each project and conserve more water, all while staying within budget. Gaining total control over your customers' irrigation needs. That's The Intelligent Use of Water.™

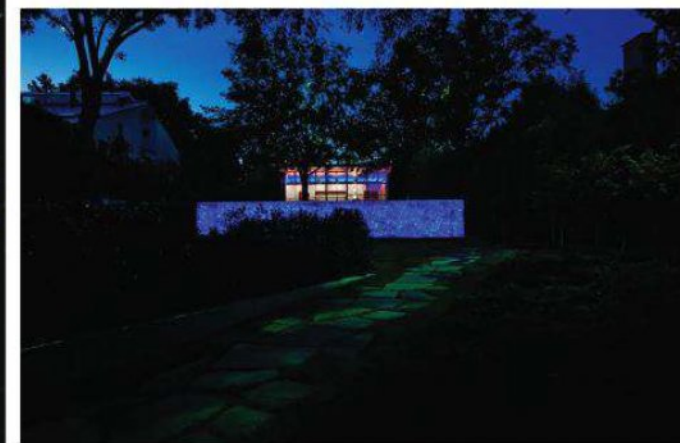
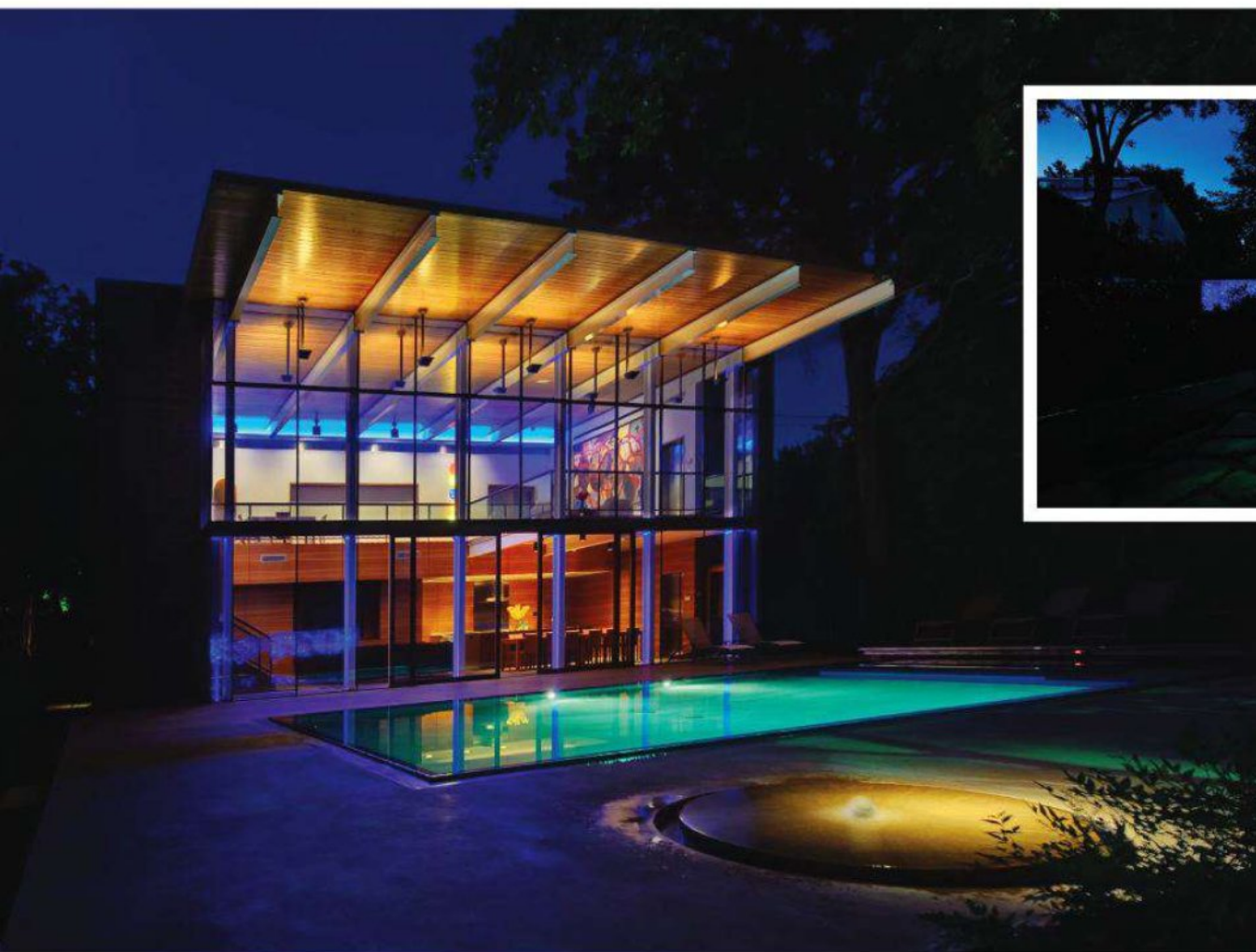


From Advanced ET to Flow Sensing, do it all with the new ESP-LX Series featuring IQ™ v2.0 Central Control.

RAIN BIRD®

CIRCLE 178 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-178](http://INFO.HOTIMS.COM/34634-178)

More at magazinesdownload.com or ebook-free-download.net



LEFT AND ABOVE

In contrast to the daytime palette of natural greens and warm wood hues, blue—a favorite of the client—forms a nighttime light motif. The pool, the cabana structure, and the glass wall glow in shades of turquoise and ultramarine.

IMAGE CREDITS

James F. Wilson

HOCKER'S DESIGN MEDIATES BETWEEN THE ARCHITECTURAL AND THE ORGANIC.

lot. (If needed, a second family house could fit in the front of the property.) Materials are humble and the utilitarian concrete floor slips smoothly past the threshold of the sliding glass doors to form the pool deck. The pool itself is an intense turquoise basin ringed with dark blue tile. Water spills over the vanishing edge into a minimal steel grate. Cast into the concrete is a circular water feature. Just under six feet in diameter, the fountain's splash basin emerges only an inch above the concrete deck and it's set to a minimal burble—enough to give the sound of moving water without distracting from the landscape's overall tranquility.

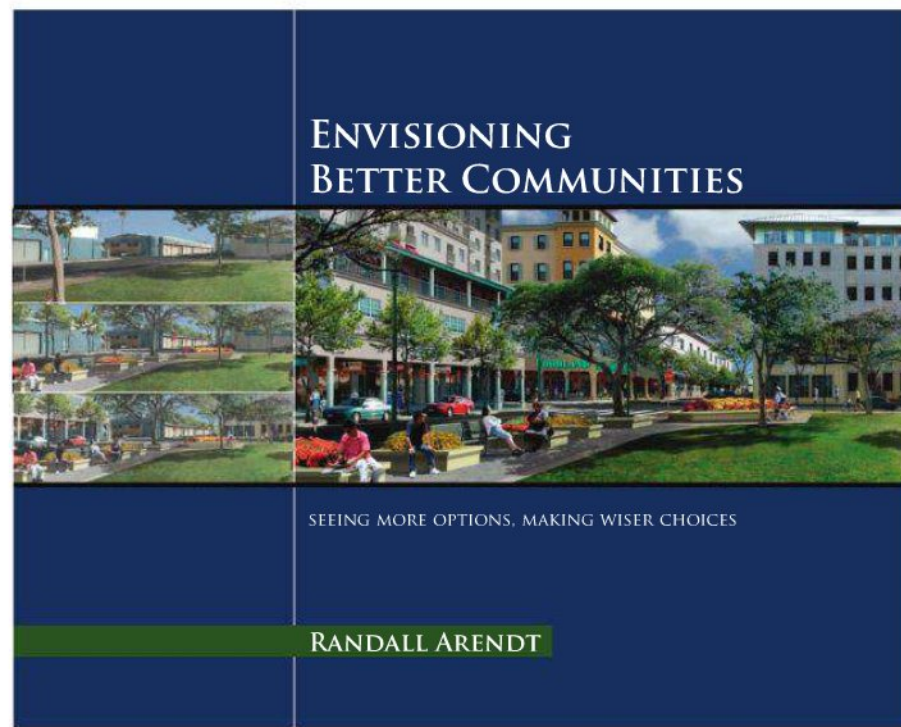
Hocker's design masterfully mediates between the architectural and the organic. Both the pool deck and the sunning deck are treated as lightweight elements, even if they are concrete and wood. At the eastern side of the garden, where a lush grove of Madake bamboo creates a privacy screen, the ipe plank sundeck is raised on footings just a few inches higher than the pool surface and juts out into the garden like a pier floating in a green lake. (Because the deck offers an overlook, owner Dana Nearburg considers it one of her favorite spots in the garden.) There's a slight slope across the site, so the edge of the concrete slab pool deck hovers a foot

"This is precisely the kind of tool local planners need."

—Bill McKibben, author, *The End of Nature*

Envisioning Better Communities

By Randall Arendt
2010 | 240 pp.
APA Planners Press and
Urban Land Institute
\$59.95 (hardcover)
APA members \$42.95



BETTER

Cultivate a vision for the future.

Randall Arendt clearly illustrates how designers, planners, and the public can change the community landscape to make more attractive, habitable, and sustainable places to live.

Available at APAPlanningBooks.com



American Planning Association

Making Great Communities Happen

CIRCLE 445 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-445](http://INFO.HOTIMS.COM/34634-445)

More at magazinesdownload.com or ebook-free-download.net



HERE

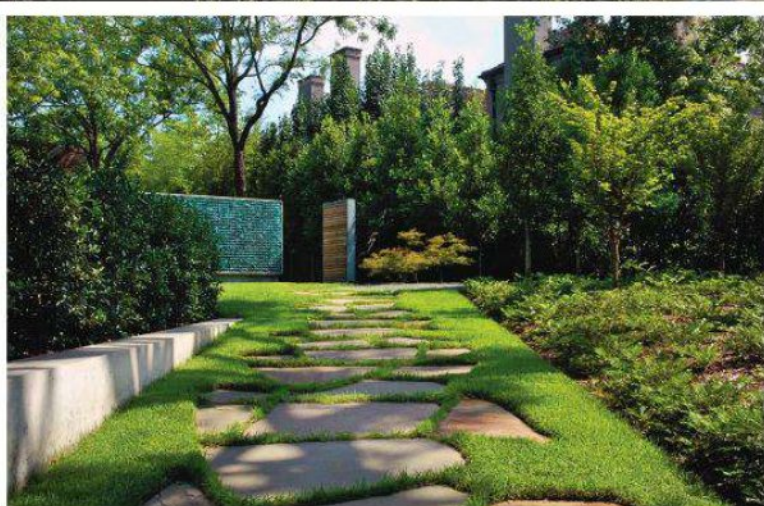
Edged by fluffy clumps of sedge, artfully arranged flagstone pavers encircle a minimalist fire pit.

INSET

Set in a trim lawn, flagstones lead the way from the street to the garden wall entrance.

IMAGE CREDITS

Gisela Borghi



above the crushed gravel ground cover. The detail illustrates the collaborative ties between the architecture and the landscape. For Cunningham, the raised slab reinforces the architectural idea of shifting planes. For Hocker, because the deck encroaches on the canopy of an existing tree on the property, treading gently on grade meant not disturbing the root bed.

“We have to watch out for how much damage is done to the site. There’s nothing harder on these environments than construction,” says Hocker, with

a sentiment seemingly better suited to greenfield locales than first-growth suburbs. But he doesn’t draw distinctions. Even in a residential context, his design is sensitive to the project’s long-term health. As such, he keeps his plant and material palette straightforward and unfussy. The choices are not necessarily native, but they are responsive to the context: Japanese maples, holly, bamboo, and sedge. Horsetail reeds and nandina are not the most glamorous species, but Hocker makes the most of them. The reeds create a three-foot-high almost architectural form, lined

Our Quality is Timeless

Contact Haddonstone
for high quality
landscape ornaments
and fine architectural
cast stone in
contemporary, classical
and traditional styles.

208 page catalog available
or visit our website:
www.haddonstone.com

HADDONSTONE

www.haddonstone.com



201 HELLER PLACE • BELLMAWR • NEW JERSEY • NJ 08031 • (856) 931-7011 • stone@haddonstone.com
COLORADO • NEW JERSEY

CIRCLE 93 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-93](http://INFO.HOTIMS.COM/34634-93)



ABOVE

The concrete pool deck floats above grade. Raising the slab protected the roots of existing trees.

IMAGE CREDIT

James F. Wilson

up from the pool house to the glass gabion wall. Plum Passion nandina, planted en masse around the existing tree, transcends its proverbial off-the-shelf appearance, adding color and interesting texture. Similarly, Pennsylvania flagstones are used simply as meandering garden paths and as a patio around the fire pit. Hocker chose the irregularly shaped material to work as an organic contrast to the concrete pool decking.

Hocker's firm is only five years old, but his sensibility goes way back. "As a teenager I did a lot of landscape and maintenance, so I have some back-

ground getting my hands dirty," he explains. He acknowledges that gardens have a life span. Moreover, they aren't always perfectly tended by experts. In their robust ordinariness, the pool house plantings can simply be trimmed down to the ground at the end of the season. "To create a healthy environment you have to plan for how it will perform in five years," Hocker adds. "Not everything is a two-by-four. We are dealing with time, the fourth dimension." ●

MIMI ZEIGER IS A BROOKLYN-BASED FREELANCER WHO WRITES ON ART, ARCHITECTURE, AND DESIGN. SHE IS A CONTRIBUTING EDITOR AT *ARCHITECT*.

Project Credits

LANDSCAPE ARCHITECT HOCKER DESIGN GROUP, DALLAS (DAVID HOCKER, ASLA). **ARCHITECT** CUNNINGHAM ARCHITECTS, DALLAS (GARY CUNNINGHAM). **LIGHTING DESIGNER** PHW ARCHITECTURAL LIGHTING DESIGN, DALLAS (PAMELA H. WILSON). **LANDSCAPE CONTRACTOR** METROPLEX GARDEN DESIGN, DALLAS (BILL NOVOSSEL). **POOL CONTRACTOR** M. M. MOORE CONSTRUCTION, DALLAS (MARSHALL MOORE). **GENERAL CONTRACTOR** CLOUDUS CONSTRUCTION, DALLAS (RANDY CLOUDUS).



SCRIPT SERIES

Utilitarian art is the best way to describe this expressive, fluid design that mimics the natural flow of the great outdoors. The freeform lines in thick and thin weights suggest a calligraphic testament to good taste.



NARRANGASSETT BAY

GARDEN COLLECTIONS

Whether it's a trellis, decking, seating or planters, Sitecraft has the elements of style for your commercial or residential projects: rooftop gardens, poolside, atriums, plazas, and parks. Our custom-crafted furnishings and accent pieces bring your vision forth to your exacting standards of quality and beauty. In Redwood, Red Cedar, Ipe and other premium woods, they're the centerpiece of all your sites.



TICONDEROGA



ALBION



DAVENPORT



SITECRAFT

CUSTOMIZED TO YOUR IMAGINATION

40-25 Crescent Street, Long Island City, NY 11101

CIRCLE 287 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-287](http://info.hotims.com/34634-287)

1-800-937-0203 | site-craft.com

More at magazinesdownload.com or ebook-free-download.net

We know the terrain.

Access strong talent. Post your open positions where committed professionals and proven performers will see them. JobLink rates are lower than most newspaper postings, and ASLA members save even more. Go to JobLink at www.asla.org/joblink, the site for new people you need.



30 days \$300 Member • \$600 Non-member



**AMERICAN SOCIETY OF
LANDSCAPE ARCHITECTS**

ASLA Honor Award Recipient, The Red Ribbon - Tanghe River Park by Turenscape (Beijing Turen Design Institute) and Peking University Graduate School of Landscape Architecture, (photo by Kongjian Yu, Cao Yang)



THE JACQUES LAMY COLLECTION
HIGH PERFORMANCE, FROST-PROOF, EXTERIOR GRADE CAST STONE



ARCHIPED CLASSICS
URNS, PLANTERS AND GARDEN ORNAMENTS

154 GLASS STREET, SUITE 100

DALLAS, TEXAS 75207

PHONE 214-748-7437

FAX 214-748-7497

WWW.ARCHIPEDCLASSICS.COM

CIRCLE 200 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-200](http://info.hotims.com/34634-200)

More at magazinesdownload.com or ebook-free-download.net

DRIVABLE GRASS®



SAND



SOD



SEED



STONE

Drivable Grass® offers a simple and reliable solution to **storm water management** through **bio-filtration**, **infiltration**, and **storage** while not sacrificing valuable site area. The thin-profile, permeable, and flexible concrete paving system promotes superior **root penetration** and **moisture containment** beneath the product resulting in **healthy turf**. Drivable Grass® is designed to **flex** and **conform**. It does not crack and break like rigid concrete or pop up and wear like plastic paving.



SOIL RETENTION

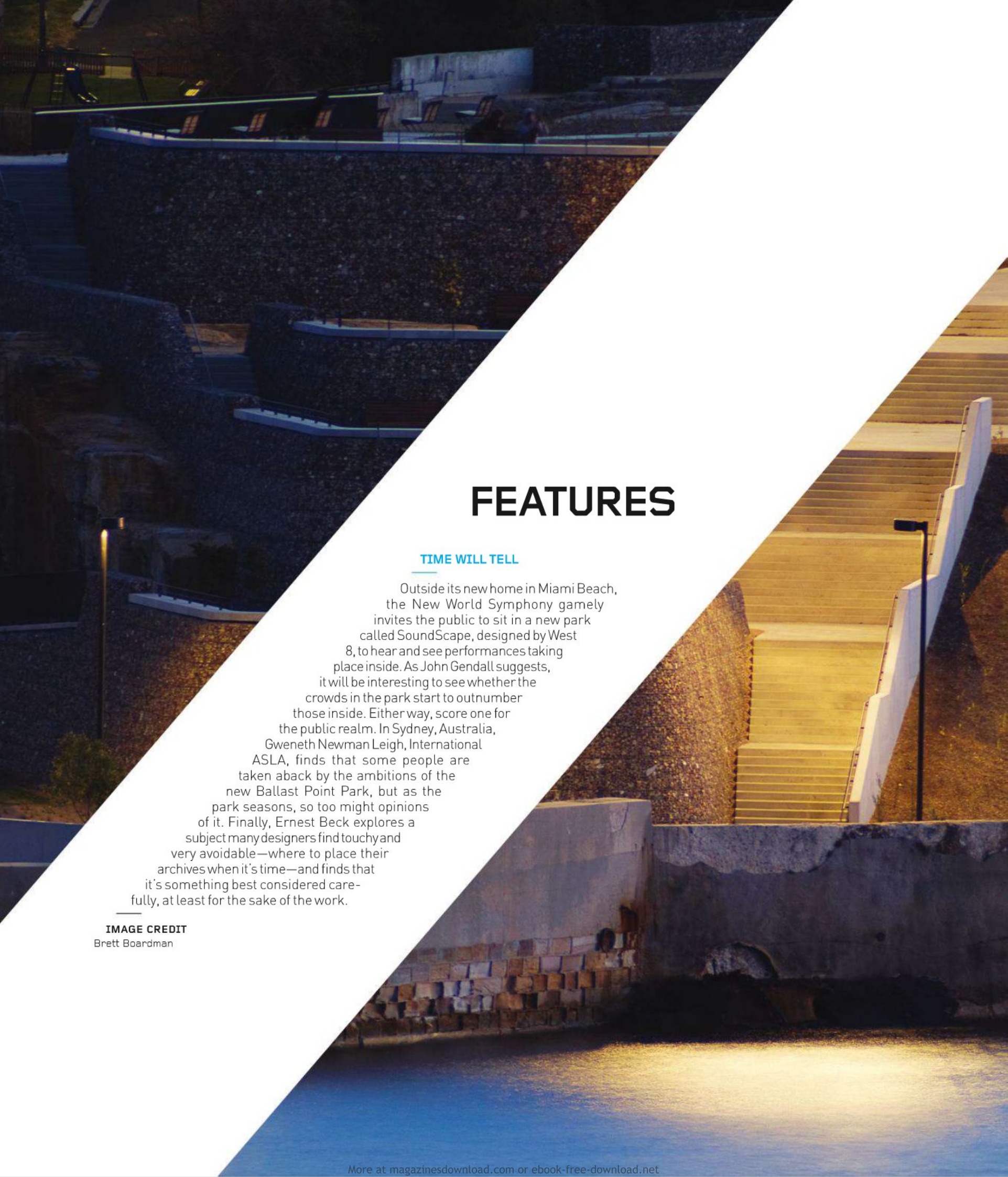
Plantable concrete systems®

www.soilretention.com

8 0 0 - 3 4 6 - 7 9 9 5

CIRCLE 201 ON READER SERVICE CARD OR GO TO [HTTP://INFO.HOTIMS.COM/34634-201](http://INFO.HOTIMS.COM/34634-201)





FEATURES

TIME WILL TELL

Outside its new home in Miami Beach, the New World Symphony gamely invites the public to sit in a new park called SoundScape, designed by West 8, to hear and see performances taking place inside. As John Gendall suggests, it will be interesting to see whether the crowds in the park start to outnumber those inside. Either way, score one for the public realm. In Sydney, Australia, Gweneth Newman Leigh, International ASLA, finds that some people are taken aback by the ambitions of the new Ballast Point Park, but as the park seasons, so too might opinions of it. Finally, Ernest Beck explores a subject many designers find touchy and very avoidable—where to place their archives when it's time—and finds that it's something best considered carefully, at least for the sake of the work.

IMAGE CREDIT

Brett Boardman

**IN MIAMI BEACH,
WEST 8 BRINGS
THE NEW WORLD SYMPHONY
OUT TO THE CITY WITH A
DAZZLING NEW PUBLIC PARK.**

BY JOHN GENDALL

IMAGE CREDIT
Robin Hill for West 8

SUR- ROUND SOUND

