FROM THE GROUND UP: INNOVATIVE GREEN HOMES

JuanHerrerosArquitectos
Fiedler Marciano | Architecture
Buro Happold Consulting Engineers
Balmori Associates

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LETTER OF INTEREST

Juan Herreros Arquitectos and Fiedler Marciano Architecture are pleased to submit for your consideration, our qualifications and preliminary concepts for the From the Ground Up: Innovative Green Homes competition. Our multi-disciplinary project team is comprised of award winning professionals that represent the highest level of design expertise in their respective fields. Buro Happold is providing both environmental consulting and structural engineering for the project, and landscape design services are being provided by Balmori Associates.

As architects we have witnessed the failures of affordable urban housing on many levels, and recognize the multi-faceted challenges faced by communities building today. We feel exemplary design can serve as the catalyst to help developers and communities surmount political, social and economic challenges.

Our interest in participating in this competition is to establish a methodology for addressing the challenges of affordable and sustainable home design that can be applied not only to the Near Westside in Syracuse, but universally to sites around the world.

To achieve the goal of producing designs of architectural significance and societal resonance, it is our belief that a comprehensive approach must be adopted that considers, in a holistic and regionally specific way, issues of community, environment, culture and economics. By promoting an adaptive regional approach as a model for progressive design, new paradigms for the single family home can begin to emerge.

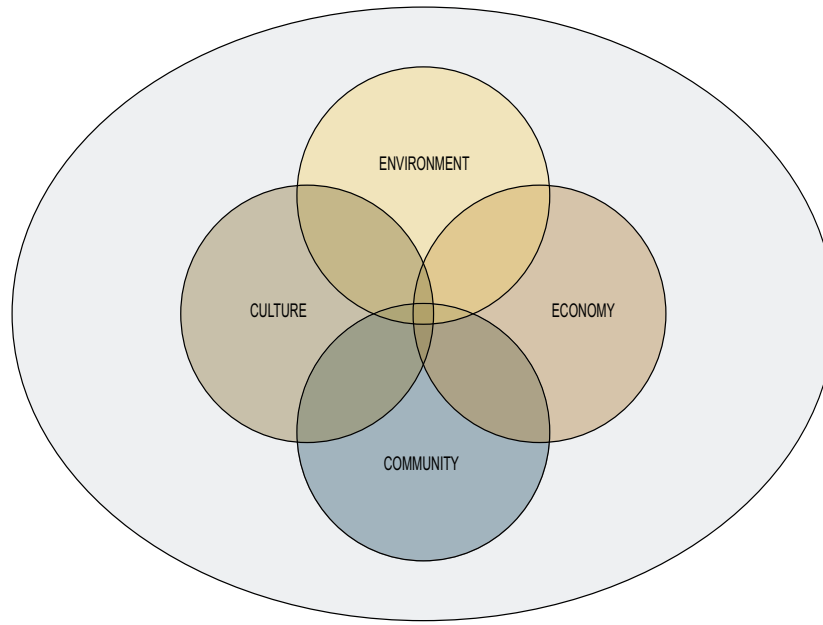
A shared commitment to sustainable architecture, through new technologies and proven approaches in passive environmental design, is central to our approach. However we recognize that the concept of sustainability extends beyond environmental design and penetrates the realms of community and culture. Sustainability is not only a requirement in the script of the protection of our planet, it is a contemporary concern that talks about a new sensibility, a new relation with the world and a new series of aesthetic experiences. It is a new architecture derived from an agenda which pursues the intelligent use of natural resources. This attracts us because we understand that it encloses the possibility of the renewal of our entire architectonic repertoire.

Juan Herreros

Mark Fiedler

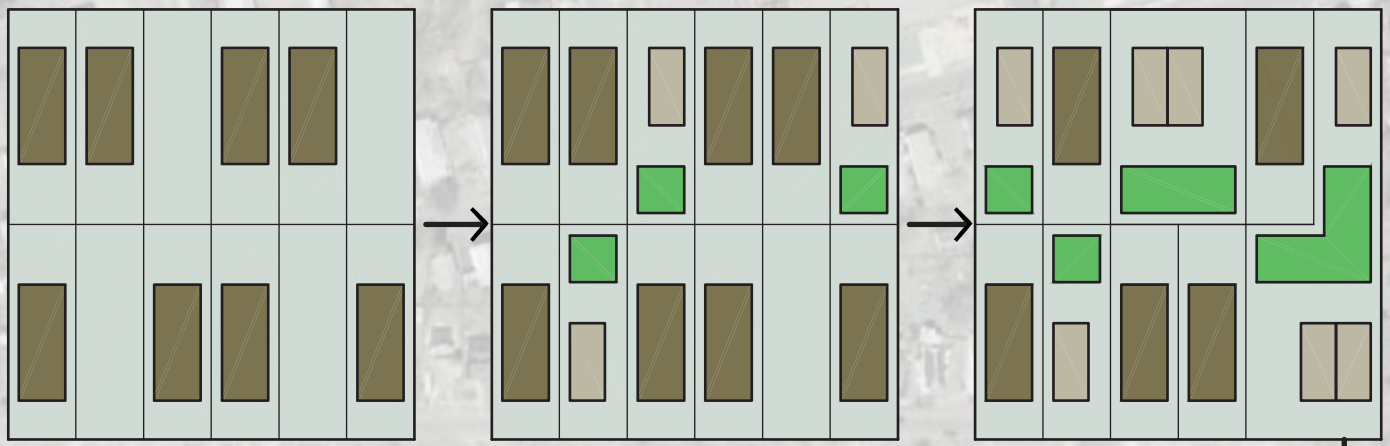
SKETCH*PAD*

ADAPTIVE REGIONALISM



The information contained in the following sketchpad pages reflects a snapshot of the design team's collective thinking on the themes raised in the competition brief. Our intent has been to pursue an adaptive regional approach towards the issues of sustainable and affordable single-family home design that can be applied to other areas of the country or the world. Our hope is that critical consideration of environmental, societal, economic, and cultural factors within the region will ultimately yield a design solution that is relevant, and grounded in the specifics of its location, while establishing a methodology that can be applied with universal success.

On Syracuse's Near Westside, this inclusive regional attitude will allow the design to reconsider established land use patterns, to incorporate passive design strategies that respond to the local climate, to make use of building materials, processes and labor resources that are available within the upstate region, to evaluate the specific spatial needs of families on the Near Westside, to pursue simple and efficient home designs that reinterpret and extend regional architectural traditions, and to address the unique economic and social needs of the local community, in order to insure a sustainable future.



EXISTING

-individually owned lots
-single story homes
-poor use and quality of open space
-poor sense of community
-waste of resources

INFILL

-infill existing empy lots
-two story homes minimize footprint and decrease building surface area
-introduction of 'urban gardens' to provide produce for both family and community
-increase in open space allows better access to light and air
-decreases site runoff

CLUSTERS

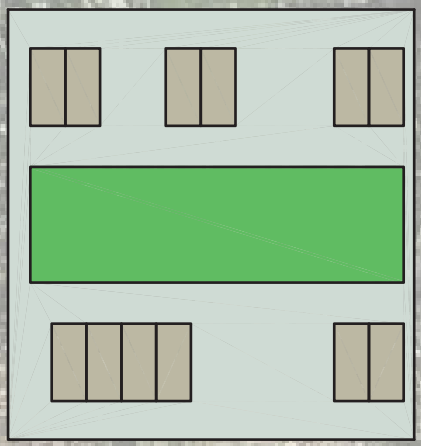
-continued redevelopment
-joint ownership of adjacent lots
-potential to cluster homes
-allows more flexible land use
-material savings
-additional decrease in surface area

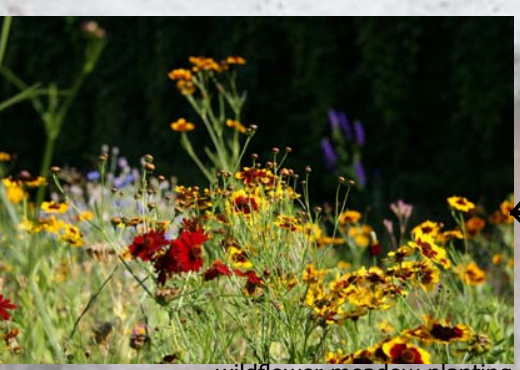
FIVE POINTS FOR THE DESIGN OF THE SUSTAINABLE HOUSE

We are interested in exploring residential models that propose *DENSITY* as a way to reach a better efficacy in no detriment of the individuality. The model based on the extensive single-family house, which in big quantities destroys the natural territory making the services more expensive, looks obsolete. However, a deeply-rooted culture defends the individuality as a core value and an objective of a quality of life that we are not going to criticize now. However, it is possible to design housing areas that optimize the resources. In this way, the reduction of energy consumption is not only a requirement, but to make the housing developments rather produce energy and in such a way completing the list of positive ingredients: collection and reuse of water, greywater recycling, residual recycling and treatment, solar energy collection over the necessary, reuse of geothermic energy, handling of the solar incidence and the improvement of thermal inertia…etc

CO-OP BLOCK

-co-op land ownership of entire block
-individual ownership of houses
-greater potential for garden
-greater potential for recreational use
-economic benefits of co-op ownership
-economies of scale
-political influence
-community identity
-improvement in quality of open space
-strong sense of community





wildflower meadow planting

freedom lawn

parking

house

wildflowers

underground cisterns

freedom lawn

wildflowers

wildflowers

vegetable garden

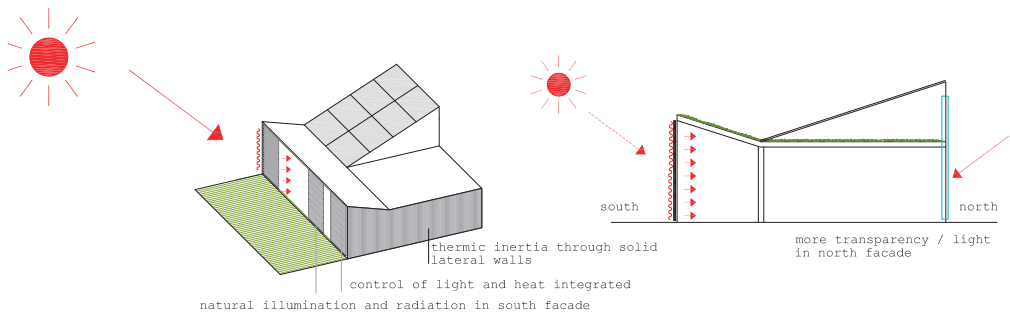
trees

LANDSCAPE

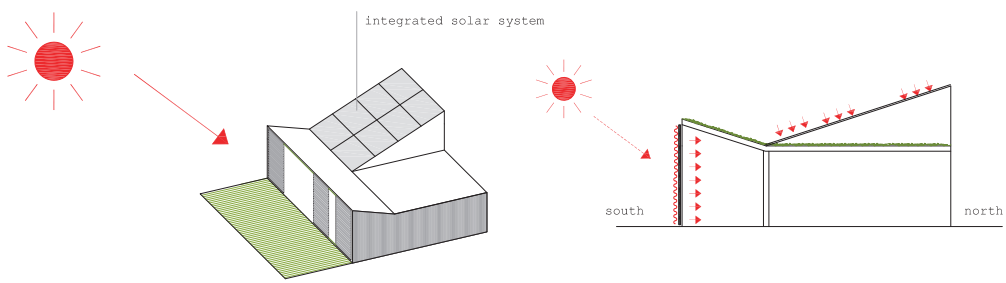
-low maintenance lawn
-urban garden/community garden
  indigenous crops
  starter kit for the homebuyer
  seeds, tools, instructions
-water harvesting, cistern mound
-composting
-native trees for shading
-permeable paving

We believe in a sustainability based on the establishment of complete *SYSTEMS* in which all the elements are implicated with an equivalent responsibility. These systems can be constructive, energetic, spatial and, in any case, they affect to the totality of the project. From this point of view, it is necessary to propose the coordination among materials, facilities, constructive resources and to make the architecture work together as a whole. These systems understood like this won't be limited to the behavior of one single house but will be ready to incorporate the environment as an effective agent and explore sustainable housing agglomerations as the mechanism to obtain sufficient critical mass in the productive exploitation of resources.

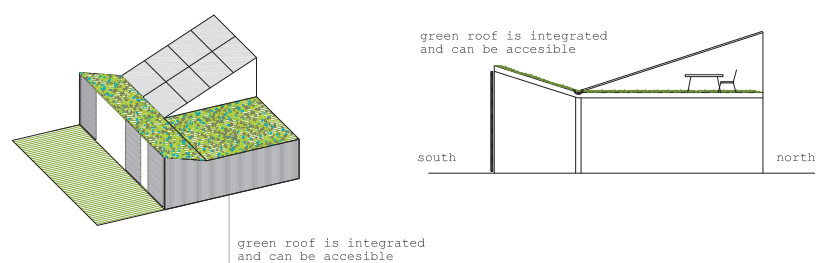
1 natural illumination



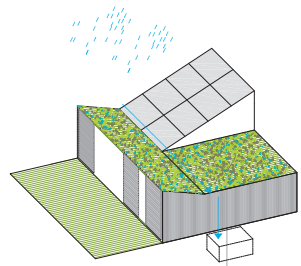
2 solar heat collection



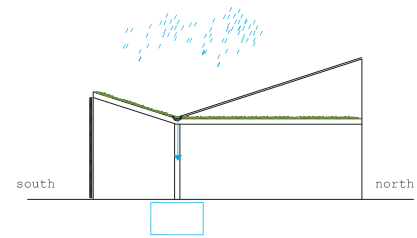
3 green roof



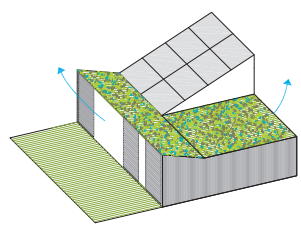
4 water collection

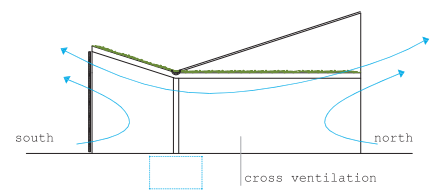


water is filtered
through the green roof
to an integrated deposit
of water for its reuse

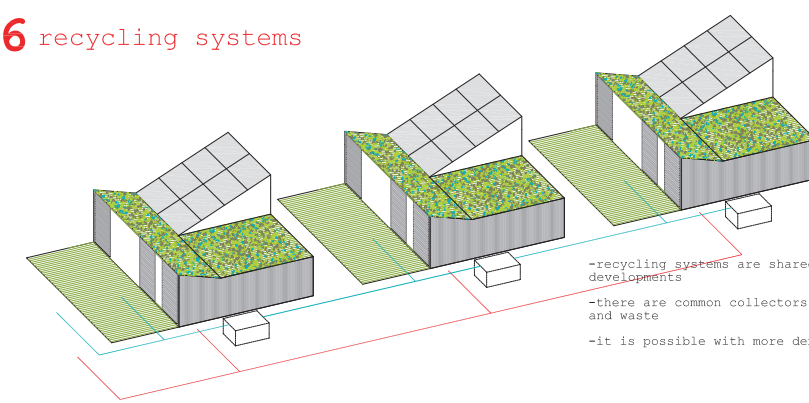


5 ventilation





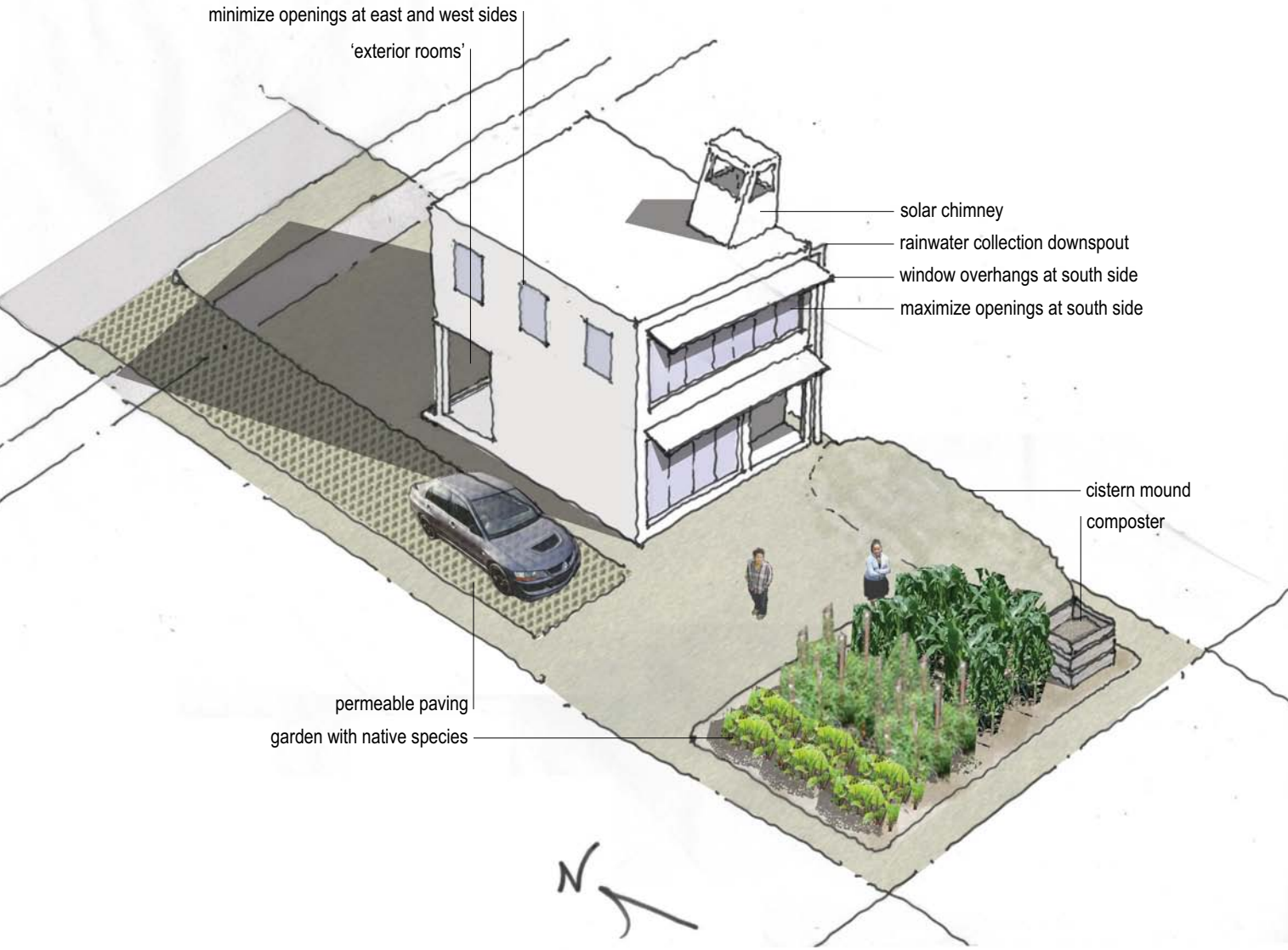
6 recycling systems



-recycling systems are shared in housing developments

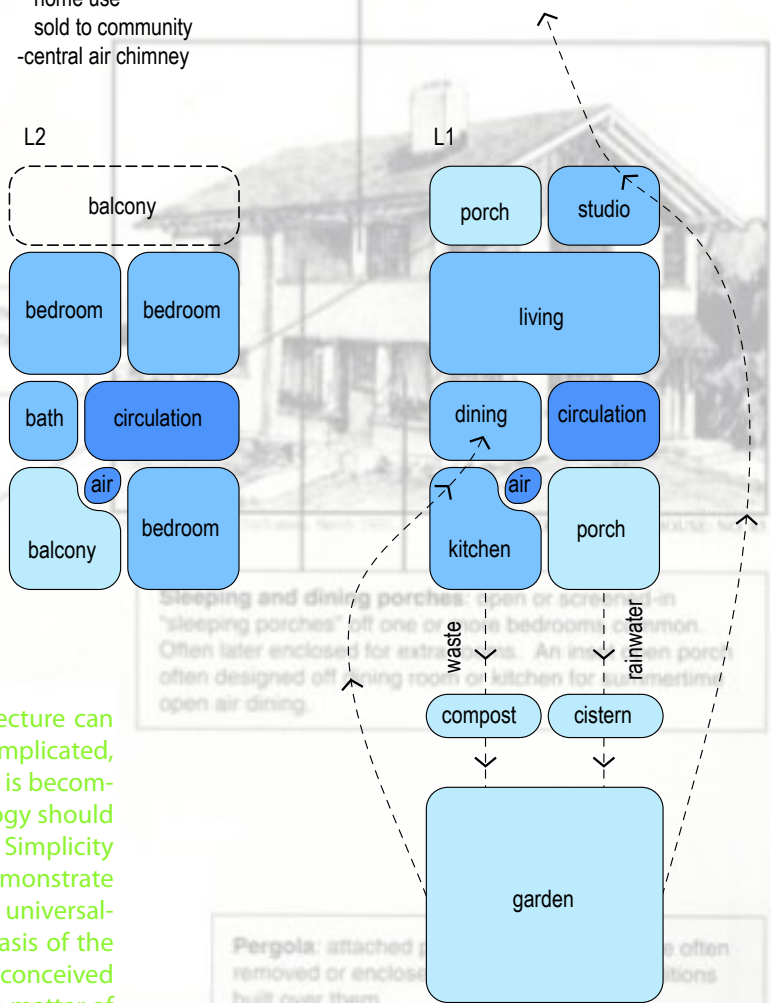
-there are common collectors of water and waste

-it is possible with more density


minimize openings at east and west sides
'exterior rooms'
solar chimney
rainwater collection downspout
window overhangs at south side
maximize openings at south side
cistern mound
composter
permeable paving
garden with native species
N

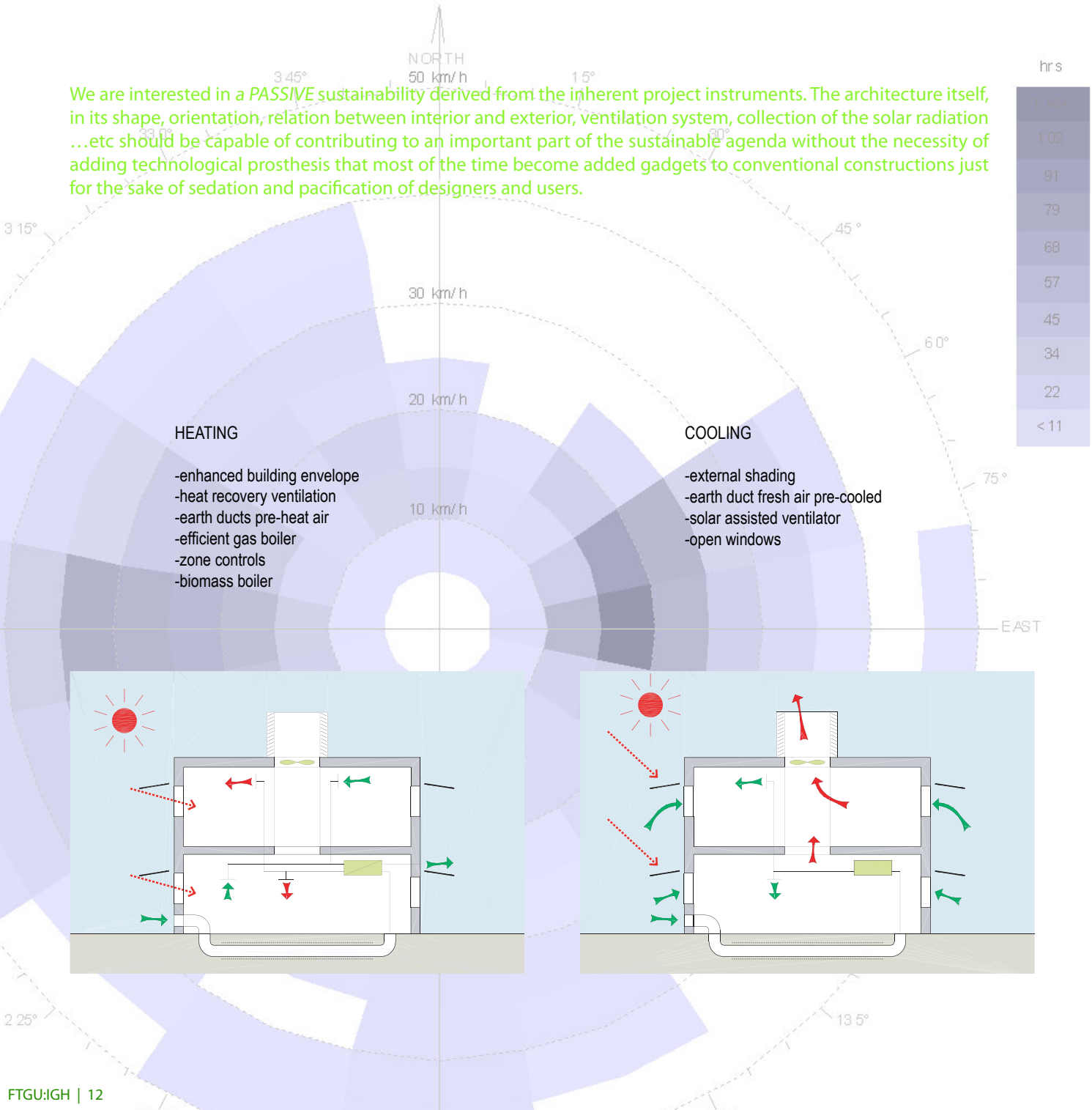
PLANNING

-efficient layout
-exterior rooms, light/air
-flexible use studio at L1
  home office
  guest room
  mercantile space
-sustainable garden:
  home use
  sold to community
-central air chimney



We back for *SIMPLICITY* as the great goal that architecture can propose at this moment. It looks surprising how complicated, sophisticated and geometrically complex architecture is becoming nowadays, while an intelligent use of the technology should lead to the simplification of the complex instruments. Simplicity understood as the reduction of variables -we could demonstrate how this reductions increases flexibility, versatility and universality and lifespan of the objects- as we think it is the basis of the implementation of systems. Therefore these models, conceived as generic, can face very different climates - it will be a matter of adding layers or adjust to the conditions- and also contexts- from the outskirts of our opulent cities to the third world.

We are interested in *a PASSIVE* sustainability derived from the inherent project instruments. The architecture itself, in its shape, orientation, relation between interior and exterior, ventilation system, collection of the solar radiation …etc should be capable of contributing to an important part of the sustainable agenda without the necessity of adding technological prosthesis that most of the time become added gadgets to conventional constructions just for the sake of sedation and pacification of designers and users.



HEATING

-enhanced building envelope
-heat recovery ventilation
-earth ducts pre-heat air
-efficient gas boiler
-zone controls
-biomass boiler

COOLING

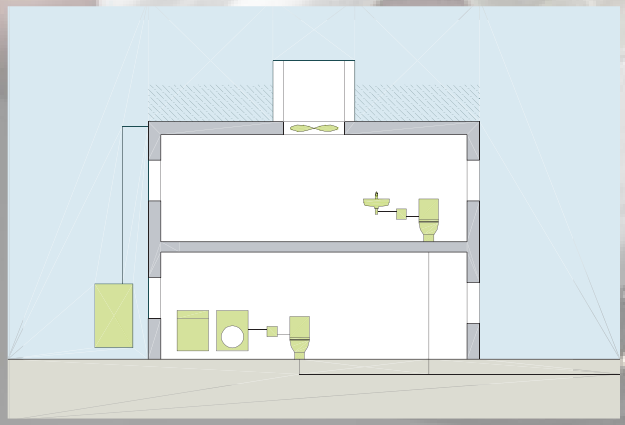
-external shading
-earth duct fresh air pre-cooled
-solar assisted ventilator
-open windows

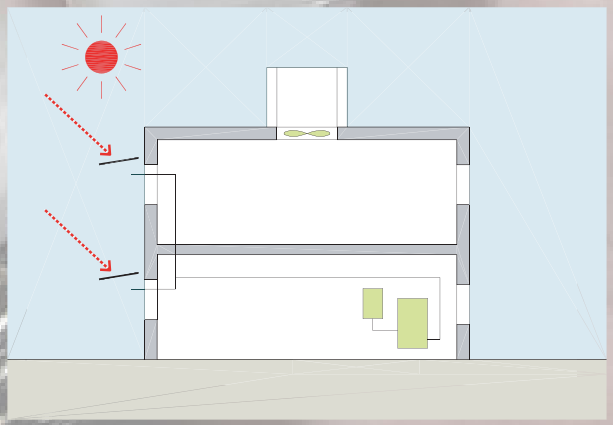
WATER

-rainwater collection for irrigation
-greywater capture and reuse
-low flow fixtures for reduced usage

RENEWABLES

-solar thermal collectors to provide energy for domestic hot water
-sugar powered extractor fan at ventilation chimney
-biomass boiler





And, finally, we understand the project as a *RESEARCH* that goes from its particular case study to the intention of supplying knowledge to a global conversation. As it is the search for a more integrated architecture, dialoguing and not abusive with the environment, this investigation can only be successful if it is capable of cherishing a community of a wide range that is interested in these crucial topics. With our work we want to be part of this community and to add innovation and a critical sense on what is already established.

PROJECT TEAM

TEAM OVERVIEW

Juan Herreros Arquitectos and Fiedler Marciano Architecture will lead an award-winning team of consultants respected world wide for their expertise and innovative approaches to design.

JuanHerrerosArquitectos

Juan Herreros has been at the forefront of international architecture for over twenty years, and the firm Juan Herreros Arquitectos is committed to advancing the ideology established by Juan in his previous role as principle in the firm Abalos y Herreros. The working methodology established by Abalos y Herreros, based on a philosophy of pragmatism, and a commitment to research and teaching, has influenced a generation of architects across the globe. Juan Herreros Arquitectos continues to design environmentally responsive work that is a direct result of a creative and technical dialogue specific to each project.

FIEDLER MARCIANO | ARCHITECTURE

Fiedler Marciano Architecture is a New York City based architectural design firm that pursues innovative, versatile and cost-effective design solutions on a wide array of project types. The firm's work has been published in the New York Times and The Architect's Newspaper. In 2008 the firm was awarded an Honorable Mention for their entry into the 99K House competition, an affordable urban house prototype that embraces a sustainable design approach. Fiedler Marciano Architecture is currently developing projects in Syracuse and upstate New York.

Buro Happold

Buro Happold has established itself as a leading multi-disciplinary engineering consultancy that incorporates imaginative and inventive engineering solutions for a wide array of building types. As structural consultants, Buro Happold's engineers deliver exciting yet functional solutions that are both sound and cost effective. As sustainability consultants, Buro Happold's environmental group strives to meet the highest standards for sustainable design that culminate in projects that are environmentally responsible at every scale.

Diana Balmori leads Balmori Associates, a New York City based urban and landscape design firm recognized for it's creative interfacing of landscape and architecture. In addition to their inventive and award winning approach to the design of urban and public space, the tenets of sustainability play a central role in their work. Through study and exploration of social and environmental contexts, Balmori Associates produce 'green infrastructures' with designs that invite community interaction while revealing the constructed and natural operations of a site.

TEAM COMPOSITION

JUAN HERREROS ARQUITECTOS

What is specific about the design method of JuanHerrerosArquitectos is the put into practice of a working methodology based on the philosophy of pragmatism that assumed Abalos&Herreros on its 20 years of experience and applied to medium scale projects where controversial situations, management subjects, architectonic and urban approaches and technical difficulties converge; and they should concur nicely. This type of circumstances can only be handled by multidisciplinary work establishing both creative and technical conversations without sticking to disciplinary limits. Such approach obeys to the principle of "making a project of each project", another cornerstone of the Studio where client, experts and architects create a continuous dialogue situations in which there are no minor issues . The objective of such methodology is to give life, on one hand, to a new conception of public space, and on the other hand, to the certainty that Architecture and its programs are for the people and it should offer an intermediary role between the world and the user. This idea lets us read the public environment, either as an open space or as a building, not understood anymore as space of political representation, but as the place with a new democratic dialogue between the human and non-human, between the world of culture and the world of nature, whose main aim is the building of a civil society that finds in the city its reason for being.

JuanHerrerosArquitectos is an office of 12-15 architects, administrative and maintenance personnel organized based on the interaction with different stable external collaborators of renowned prestige in the fields of environmental engineering, landscaping, architecture and cultural diffusion. Its internal structure is divided into four areas - projects and competitions, media and communication, development and monitoring of constructive projects and site management.

The usual process starts on the establishment of a specific strategy for each individual project. At the head of it there is always a responsible architect that ensures control and continuity along the whole process . Under his orders an expressively constituted team initiates a series of conversations with the intention to start all the project's issues at the same time. Design, structural schemes, energetic, economic and urban criteria are chapters opened right from the project's first steps. This participation of different teams, which mix the responsible of the process in the office with the necessary external consultants, turns the "conversation" into a basic instrument of a professional practice in which each day more and more agents are implied.

Juan Herreros
Principal

Juan Herreros is a PhD architect, Senior Professor and Head of Teaching Thesis Program at the School of Architecture of Madrid where he was also Construction tutor during the period of 1984-1988. His teaching experience includes numerous lectures, classes and international seminars as well as research workshops (Hannover, Pavía, London, Santiago de Chile, Buenos Aires, Bogotá, Montevideo, Barcelona, Mallorca, Chicago, Riccione...). In 2000 he published the monograph "Caducidad, Educacion y Energía" about PotteriesThinkbelt by Cedric Price (Fundacion COAM, Madrid) of which he commissioned the exhibition for the Ministry of Infrastructure (Madrid, 1999). In 2004 he published two books: "Isla-Ciudad" (Actar), a collection of the experiences of the workshop "Arquitectura y Energia" (Mallorca, 2003) and "Palacios de Diversión" (Exit.LMI), a compendium of Teaching Unit Q during the course 2003-04 (ETSAM). Nowadays, he holds the position of "Visiting Professor" at Columbia University, New York, where he was named "Buell Book Fellow" in 1995-96. He also taught at Princeton University from 2004 to 2007, for the "Diploma Unit Masters" at the Architectural Association of London in 1998-2000 and as "Professeur Invite" at the EPF of Architecture of Lausanne in 1999-2000. He has collaborated as jury in numerous national and international competitions. He is member of the expert committee of the Institute for Sustainability at the School of Architecture in Madrid. At the same time he prepares a critical edition of Cedric Price's writings and an essay about Energy, Architecture and Nature in light of the new uncertainties that go through our present around the renovation of the architect's role and his projecting techniques.

Together with Iñaki Abalos he founded Abalos&Herreros (www.abalos-herreros.com) in 1984. The work of A&H was awarded in several occasions, reviewed by specialized magazines and it was displayed in collective exhibitions such as the ones promoted by the MOMA with the mottos "Light Construction" and "Groundswell" (New York, 1995/ 2005), "New Trends of Architecture" and "Dialogue" (Tokio 2002/ 2005) and individual exhibitions (AA London, IIT Chicago...). Two of them stand out, "Grand Tour", organized by the CAAM in Las Palmas de Gran Canaria and ICO in Madrid. Their work was also compiled in the monographs "Abalos&Herreros" (Gustavo Gili, 1992), "Areas of Impunity" (Actar, 1997), "Recycling Madrid" (Actar, 2000), 2G number 22 (Gustavo Gili, 2002) and "Gran Tour" (CAAM 2005). They are authors of "Le Corbusier. Skyscrapers", "Tower and Office" (MIT Press) and "Natural-Artificial" (Exit. LMI). In 1992 they founded the International Multimedia League (LMI), an organization that contributes to the simplification and intensification of artistic practice.

Since 2007 he combines his activity at A&H with JuanHerrerosArquitectos, whose first completed work was the installation and spatial design of the Contemporary Art Fair ARCO8 in Madrid. Nowadays, JuanHerrerosArquitectos developes projects in Spain, Uruguay and Mexico.

TEAM COMPOSITION

FIEDLER MARCIANO | ARCHITECTURE

Fiedler Marciano | Architecture was established by principals Mark Fiedler and Martin Marciano as an architectural design firm that pursues innovative, versatile and cost-effective design solutions on a wide array of project types. Extensive experience collaborating with institutional clients such as the Picasso Museum Foundation, The Philadelphia Museum of Art, The Salvation Army and Syracuse University has equipped Mark and Martin with the ability to enter into creative dialogue on some of the most complex and challenging projects, resulting in work that is both inspired and practical. The firm also engages in a variety of smaller scale residential and commercial work, employing an inquisitive, hands-on and personal approach which yields design solutions that respond to the unique aspirations and needs of each client.

The firm's design process fosters an environment of creativity and collaboration among the entire project team including owners, consultants and contractors. After clearly defining the inspirations, goals, requirements and restraints of a given project a variety of solutions are proposed, critiqued and refined so that the final design embodies a thoughtful solution of singular character.

Emphasis on the qualities of space and light, and diligent attention to the materiality, transparency, flexibility, efficiency, sustainability and sincerity of the architecture characterize the design work of our firm.

Mark Fiedler
Principal
Mark has more than 20 years of experience in the field. He has worked both as a sole practitioner and at large firms, including Kohn Pedersen Fox Architects and Gluckman Mayner Architects. Mark's extensive portfolio includes high-rise, institutional, residential and commercial work, all of which reflect his unique ability to design and realize projects of the highest caliber. Notable projects from Mark's tenure at KPF include the World Bank in Washington D.C., 1325 Avenue of the Americas in New York City, and 1777 JFK Boulevard in Philadelphia. Acclaimed work at GMA includes the Philadelphia Museum of Art Perelman Building, the Austin Museum of Art, the Gianni Versace Store on Madison Avenue in New York City, and the Mi Amo Spa at Enchantment Resort in Sedona, Arizona.

Mark Fiedler holds a Bachelor of Architecture degree from Syracuse University and a Master in Design Studies degree from the Harvard University Graduate School of Design. He has served as a guest juror at Syracuse University, New Jersey Institute of Technology, and Hobart and William Smith College. He is a registered architect in Connecticut and New York and is a member of the AIA.

Martin Marciano
Principal
Prior to establishing Fiedler Marciano Architecture in January 2006, Martin spent over ten years working for Gluckman Mayner Architects; five as an Associate with the firm. He has worked at Prentice and Chan, Ohlhausen and Gwathmey Siegel in New York City, and at Abalos Herreros Architects in Madrid. Martin has also worked as a sole practitioner. Notable projects from his tenure at GMA include The Warehouse for Syracuse University, the Whitney Museum of Art in New York City, the Galeria Sequeira in Braga, Portugal, and the United Nations ECOSOC in New York City. The Museo Picasso Malaga, for which he was lead architect, received an Honor Award from the AIA and was featured in such publications as Architectural Record and The New York Times. Projects worked on prior to GMA include the Science, Industry and Business Library-a branch of the New York Public Library, the Dibner Library/CATT at Polytechnic University, and residence halls for The Cooper Union for the Advancement of Science and Art and the New School for Social Research, all in the New York City area.

Martin holds a Bachelor of Architecture from Syracuse University, has been a member of the faculty at Syracuse University's School of Architecture, and has served as a guest juror at Yale University, Syracuse University, New Jersey Institute of Technology and Hobart and William Smith College. He is a registered architect in New York and is a member of the AIA.

TEAM COMPOSITION

BURO HAPPOLD ASSOCIATES

Buro Happold is a world class, multi-disciplinary engineering consultancy, operating out of an international network of offices. We provide comprehensive general and specialist engineering for complete developments, buildings and their infrastructure. Our aim, on behalf of our clients, is to achieve value in our engineering design and completion of our commissions both to cost and to program. We provide design solutions which are easily constructed, responsible to the environment, efficient in their use of materials and energy, and which deliver value for money. Broadly, the objectives of Buro Happold are:

- to serve the project by providing reliable engineering
- to integrate sound engineering principles into the total design
- to provide practical designs that balance first cost, value and performance
- to help the design team shape desirable solutions to project needs
- to present clear, concise and relevant drawings and documentation for tendering and construction
- to manage the process so that it is timely, efficient and coordinated with the pro cesses of the architect, quantity surveyor and other disciplines, and with the needs of the client and end users.
- to advance sustainable building concepts including environmental and energy con servation into the design process

Our engineers work as members of design teams with architects and other professionals, providing either assistance in a specific discipline or the total engineering input. Our multi-disciplinary approach enables us to assist effectively across every stage of design, from the important early stages through to final implementation and subsequent operation and maintenance. We think imaginatively and inventively about building things, and we make the design engineering experience enjoyable. Our role, as engineers, is to listen, understand and advise. We try to match the opportunities and constraints of the site with construction methods that give best value in meeting client's needs, thereby providing projects of lasting value and service. We believe our sharply focused approach of integrated design blended with proven fast track experience allows maximum financial return on developments. Our vision is to become the world's best integrated multi-disciplinary engineering and strategic consultancy for the built environment.

Cristobal Correa PE, BSCE, MSCE
Associate Principal, Structural Engineer
Cristobal joined Buro Happold in 1998. A willingness to cross borders and boundaries to satisfy his interest in state of the art structural engineering has led Mr. Correa to design tension structures, facades, art installations, long span structures, and temporary buildings as well as more traditional buildings of concrete and steel. In the process he has acquired experience working collaboratively with architects building in France, Mexico, Korea, Thailand, Luxembourg, Spain, the United Kingdom and the United States. Mr. Correa is licensed as a Professional Engineer in 5 US States. At Buro Happold, Mr. Correa is responsible for managing teams of engineers. Mr. Correa works with clients to generate ideas, propose solutions and establish design direction for projects. As project leader he assures the quality and timeliness of the work produced.

Julian M. Parsley
Environmental Designer
Julian has worked on a variety of projects providing design and sustainability services. Mr. Parsley has experience with design teams during all phases of development and construction, including post-monitoring. Mr. Parsley's professional work focuses on energy and building systems with a focus on providing solutions for low carbon development.

TEAM COMPOSITION

BALMORI ASSOCIATES

Balmori Associates, a New York City based urban and landscape design firm, was founded by Diana Balmori in 1990. The practice is recognized worldwide for its creative interfacing of landscape and architecture. Through research, collaboration and innovation Balmori Associates explore and expand the boundaries between nature and structure.

Our firm's approach is rooted in coupling design ideas with an understanding of environmental, social and physical needs. Balmori Associates has established a signature and functional aesthetic by applying inventive design thinking to a careful study of the social aspects of ecological, hydrological and temporal dimensions of projects. As distinguished leaders in the field of urban design and the innovative public space making, we use design to give form to the processes of sustainability. Whether developing new parks, redesigning existing open spaces, or creating recreational venues that integrate architecture and landscape, we seek to produce 'green infrastructures' with designs that invite community interaction while revealing the constructed and natural operations of a site.

Our diverse portfolio includes executed projects at all scales, and award-winning competition designs. In urban design projects, Balmori Associates works closely with municipal agencies, community, public and private organizations to interweave the many landscape and ecological systems that comprise successful urban spaces. The firm has created public plazas for corporate clients in Tokyo, university courtyards for academic institutions across the United States, and internationally recognized competition submissions, such as the short-listed proposal for a memorial commemorating the life of Diana, Princess of Wales noted for displaying the process of cleansing water through a series of water gardens in Hyde Park.

Sustainability is a central concern in all our work. In 1998, Balmori Associates' Master Plan won the international competition for the waterfront development of the Abondiobarra district of Bilbao, Spain. We provided design leadership on the green-roof at Silvercup Studios in Queens, New York, the largest scientifically monitored green roof in the United States, and the New York City Winter Garden at the World Financial Center, completed in 1998 and restored in 2002. Currently, we are in the first design phase of Sejong Administrative Town, a zero-waste urban plan in South Korea.

Diana Balmori
Principal

Diana Balmori, founding principal of Balmori Associates, brings a breadth of experience in architecture, urban design, landscape architecture, ecology, architectural history and sustainability to her New York-based landscape urban design office. Recognized internationally, Dr. Balmori has been honored by numerous institutions, including the National Endowment for the Arts, the National Endowment for the Humanities and the American Institute of Architects. In 2006, Dr. Balmori was appointed a Senior Fellow in Garden and Landscape Studies at Dumbarton Oaks in Washington, DC.; from 2003 - 2007 Dr. Balmori served on the U.S. Commission of Fine Arts, and she currently sits on the Boards of the Van Alen Institute in New York City; Minetta Brook (a public art organization); and the American Historical Association. A design educator as well as practitioner, Dr. Balmori, holds a joint appointment with the Yale School of Architecture and the Yale School of Forestry and Environmental Studies.

Mark Thomann
Junior Partner

Mark Thomann is a landscape architect and project designer with Balmori Associates. Since October 2001, he has been actively involved with leading the conceptual design, development and management of a range of projects and competitions including: High Line Master Plan Finalist, NY, NY; Diana Princess of Wales Memorial Fountain Finalist, London, UK; Shenzhen Cultural Park, Winning Design, Shenzhen, China; NYC 2012 Equestrian Center, Staten Island, NY; Queens Artist Gardens Winning Design; Washington Monument Grounds Finalist; Long Island (Green) City; Queens, NY; Bilbao Plaza, Bilbao, Spain; Socrates Sculpture Park, Queens, NY; and proposals for the WTC Temporary Memorial Construction Fence in NYC.Mr. Thomann earned his Masters of Landscape Architecture & Regional Planning from the University of Pennsylvania Graduate School of Fine Arts in 1999. He also holds a certificate in landscape architecture awarded by Harvard University Graduate School of Design in 1995. Prior to joining Balmori, Mr. Thomann worked for Yoji Sasaki/Ohtori Consultants Landscape Design Institute in Osaka, Japan, Ken Smith Landscape Architect, and Otto Design Group.

PORTFOLIO

HOUSE IN MALLORCA, JUAN HERREROS ARCHITECTOS

THE 99K HOUSE, FIEDLER MARCIANO | ARCHITECTS

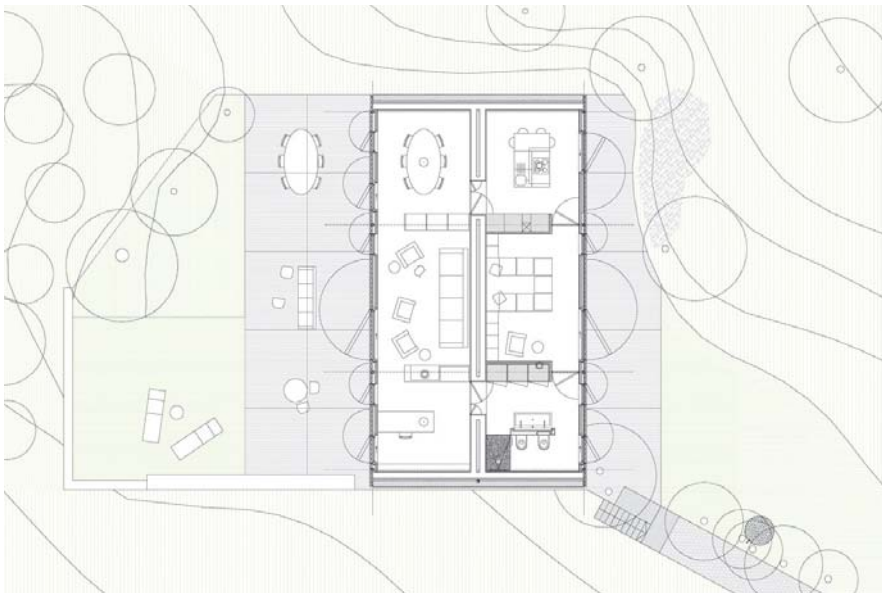
PRARIE WATERWAY, BALMORI ASSOCIATES

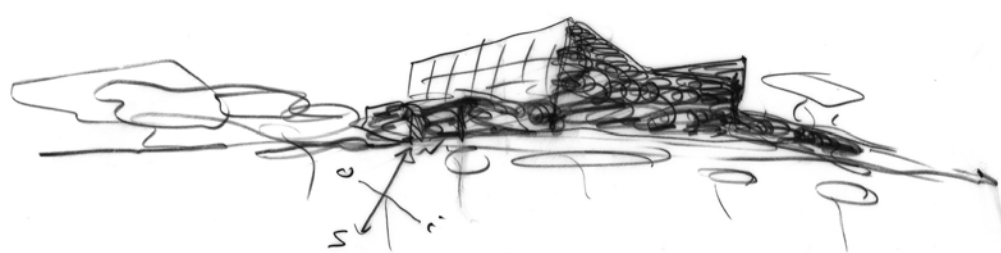
HOUSE IN MALLORCA
JUAN HERREROS ARQUITECTOS

With Víctor Garzón and Verónica Melendez
Structural Engineer: Eduardo Barrón
Site: Mallorca, SP
Budget: 95.000 €
Date: 2007

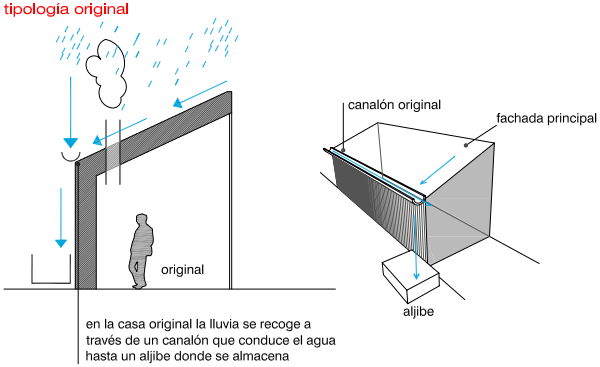
The project converts an existing vernacular structure that formerly served as a refuge for shepherds into a small residence for occasional use. The approach consisted of replicating the original volume symmetrically to conserve the original conditions and technical function of an apparently innocent construction that was designed intelligently where its orientation, ventilation and water collection facilities, etc. were concerned.

A dry-constructed outer wall stimulates an open and voluntary dialogue with the different aspects of the local climate. Seeing, lighting, ventilating or heating are various operations associated with two independent systems of openings and shutters that imbue the northern and southern faces with an ambiguous and enigmatic look. The interior reproduces the original and primitive compartments (for animals, shepherds and forage) in two directions: North (kitchen, bedroom and bathroom) and South (dining room, living room and study). Each compartment contains one single major object (table, sofa, writing desk, bath, bed and cooker) which serves to define each space and its use.



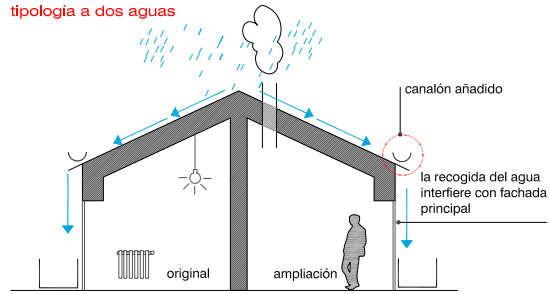


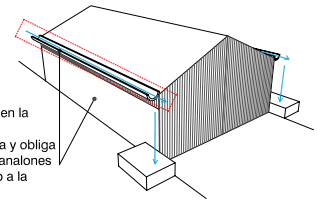
tipología original



en la casa original la lluvia se recoge a través de un canalón que conduce el agua hasta un aljibe donde se almacena

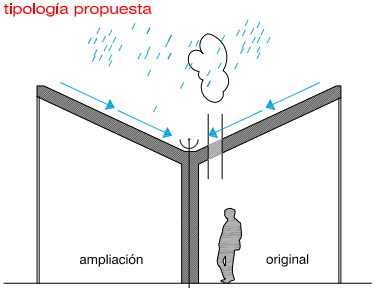
tipología a dos aguas



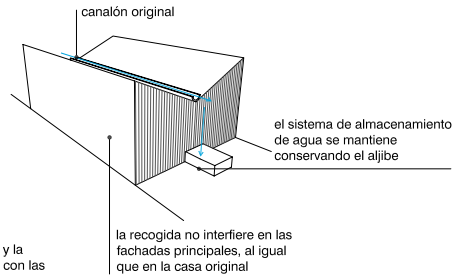


La recogida de agua en la cubierta a dos aguas contradice la tipología y obliga a construir aleros y canalones duplicados afectando a la fachada principal.

tipología propuesta

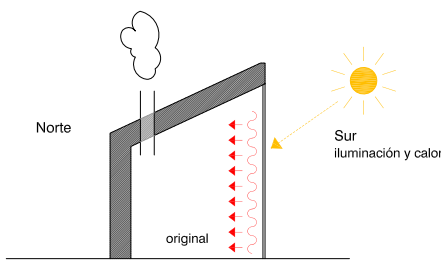


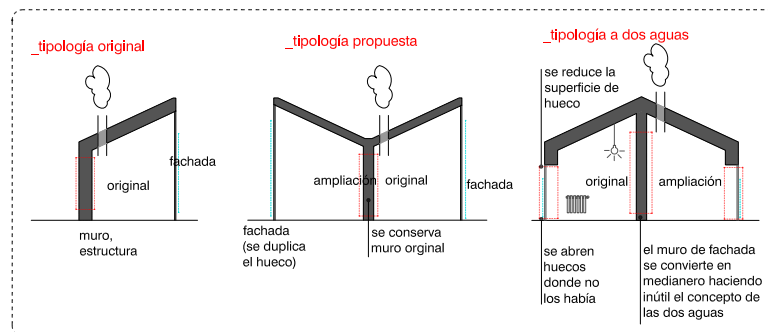
el canalón original se mantiene y la recogida de aguas no interfiere con las fachadas principales



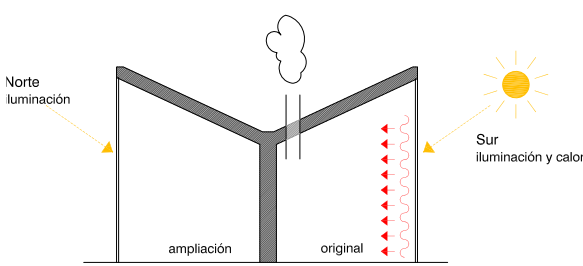
la recogida no interfiere en las fachadas principales, al igual que en la casa original

tIpología orIgInal

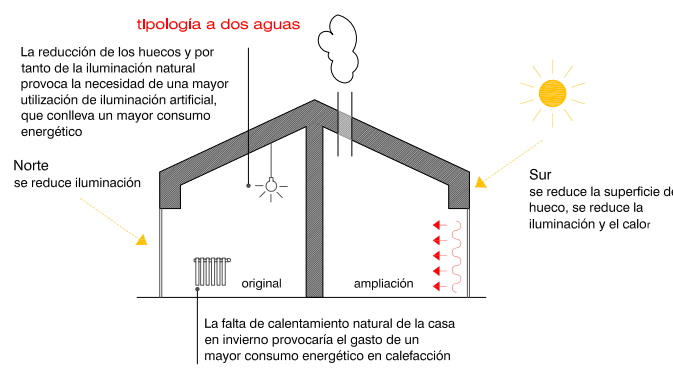




tIpología propuesta



tIpología a dos aguas



99K HOUSE COMPETITION ENTRY
FIEDLER MARCIANO | ARCHITECTURE

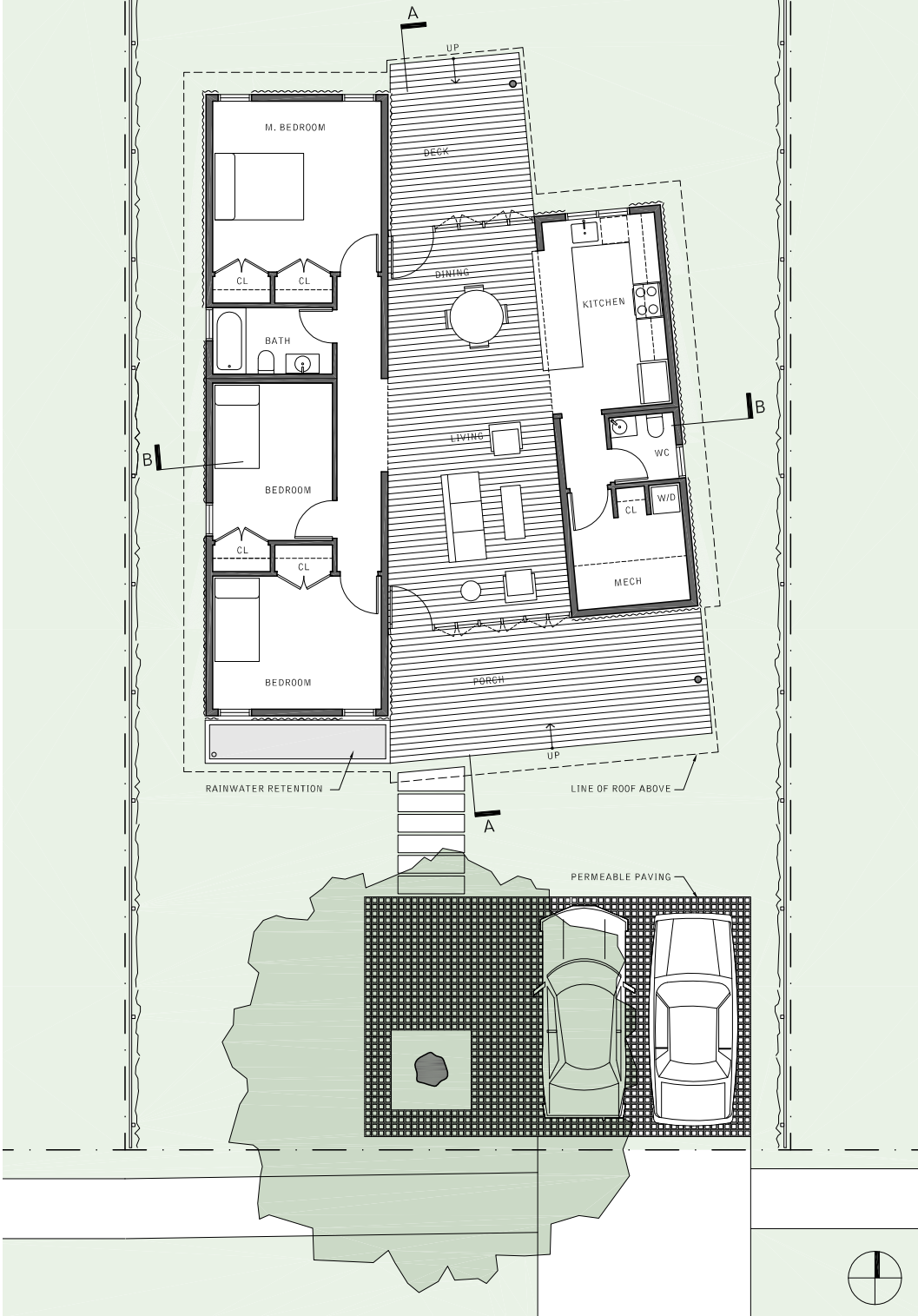
Site: Houston, TX, USA
Budget: $99,000 USD
Date: February 2008
Awarded Honorable Mention

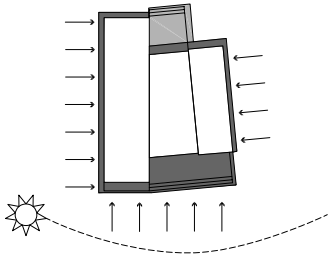
The concept for the design and construction of the 99K House is to combine innovative design and sustainable building practices with an affordable and cost effective construction approach. The prototypical design is conceived as a hybrid construction project that consists of both off-site prefabrication and significant on-site labor, intended to specifically engage the local labor force and firmly root the project within the community.

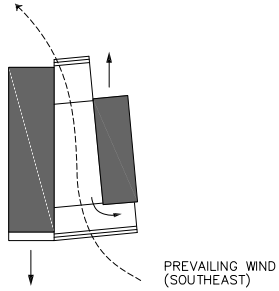
The bedrooms, kitchen, and service components are built off-site as prefabricated units, then transported to the site and installed on pier and beam foundations. The interstitial space defined by the prefabricated modules becomes the living and dining area, including a front porch and rear deck. The framing and enclosure for this space is built on site and bridges the prefabricated modules.

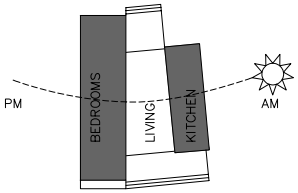
This hybrid construction approach yields an inherent flexibility and uniqueness to each design. The prefabricated components can be arranged in a variety of ways that respond to site specific conditions such as lot size, orientation, and existing foliage. Each composition results in a living area of unique character, and an overall home design that is non-repetitive and site specific.

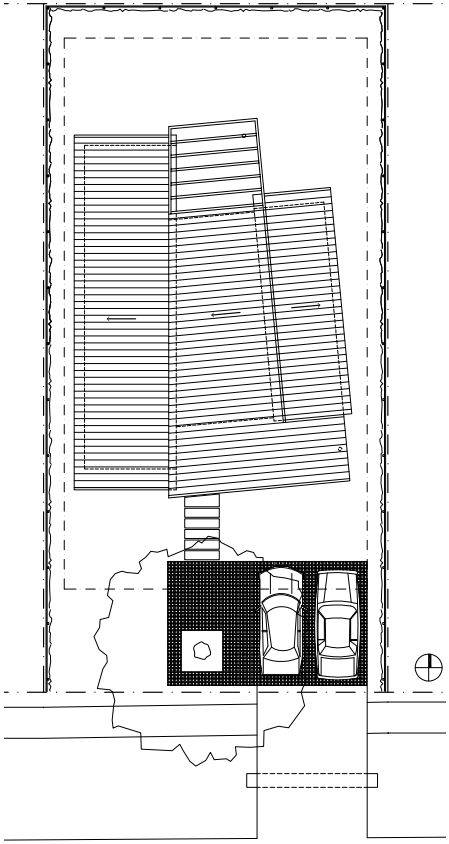
The design illustrated consists of two bars oriented to take advantage of the prevailing southeasterly winds, while minimizing heat gain. The program elements are arranged to use available natural light throughout the day. A tightly constructed envelope helps reduce energy costs while employing low-maintenance and environmentally friendly materials.

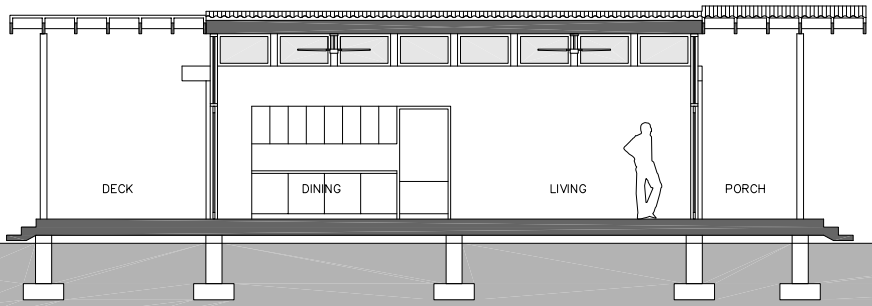

A
UP
M. BEDROOM
DECK
CL
CL
DINING
KITCHEN
BATH
B
B
LIVING
WC
BEDROOM
CL
W/D
CL
CL
MECH
BEDROOM
PORCH
UP
RAINWATER RETENTION
LINE OF ROOF ABOVE
A
PERMEABLE PAVING

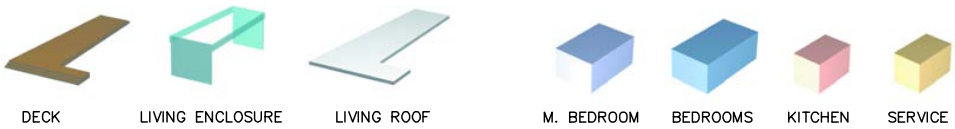


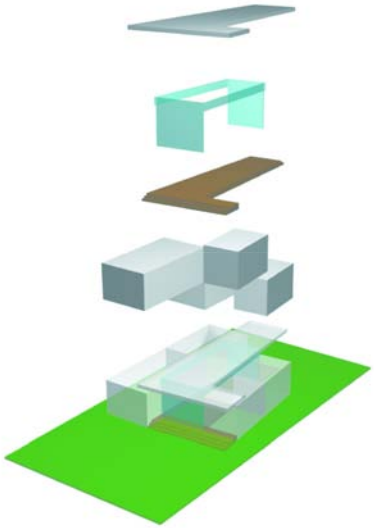

PREVAILING WIND
(SOUTHEAST)

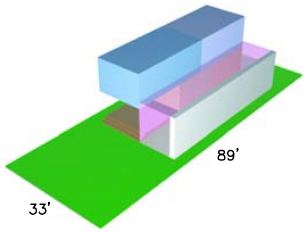

PM
BEDROOMS
LIVING
KITCHEN
AM

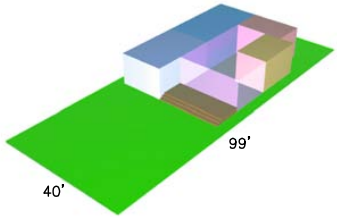


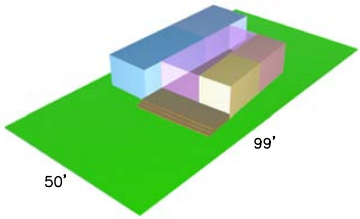

DECK
DINING
LIVING
PORCH

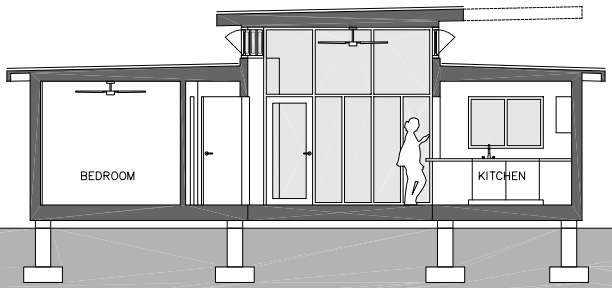

DECK
LIVING ENCLOSURE
LIVING ROOF
M. BEDROOM
BEDROOMS
KITCHEN
SERVICE




89'
33'


99'
40'


99'
50'


BEDROOM
KITCHEN

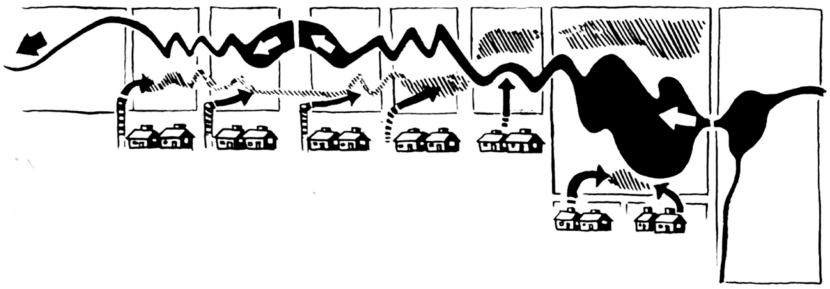
PRARIE WATERWAY
BALMORI ASSOCIATES

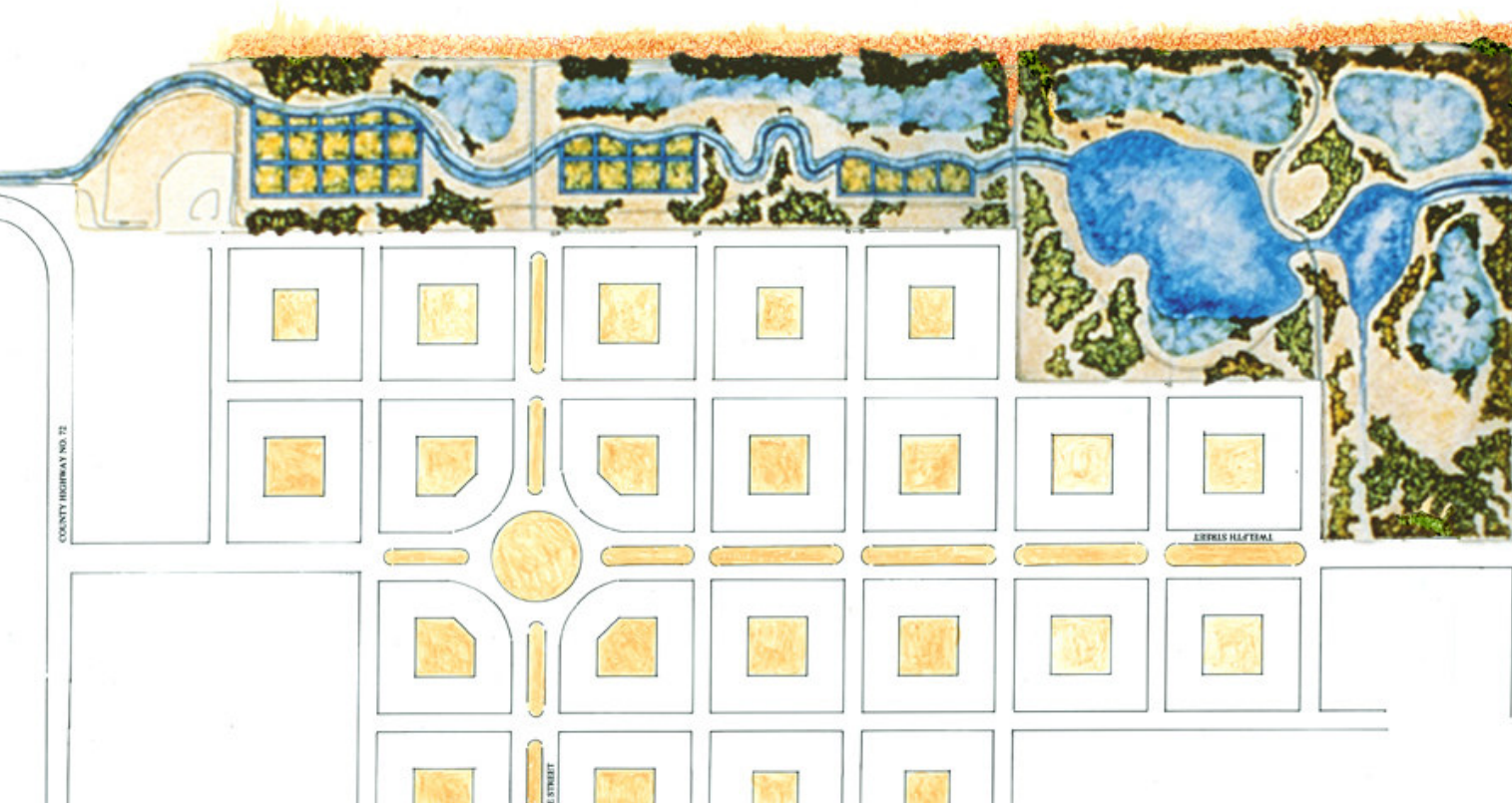
Site: Farmington, MN, USA
Budget: $2,300,000 USD
Date: 1996

A drainage system for a new development serves to create green public space. It also resolves environmentally the issue of frequent flooding in a flat plain-with a high water table and peak storm volumes emptying in the Red River.

The Farmington, Minnesota, Prairie Waterway has a dual purpose, providing drainage for the development of nearly 500 homes while creating and functioning as a public space. Balmori Associates proposed an open water drainage system to replace the usual underground pipeline. Dubbed 'Park Place' by local residents, the 91-acre park has now become an integral part of the community, not only as a part of infrastructure, but also as a public amenity.

The project explores ecological issues of form in ecology in the form of a designed riparian system. The design consists of a civic lawn on axis with the downtown area, flanked by playing fields, bike paths and pedestrian paths; glimpses of wildlife are provided by the wetlands associated with this urban waterway. A series of strategies to temporarily store excess water and mitigate the risks of flooding use such features as a swale system, ponds and channels, and planted grasses and sedges.




COUNTY HIGHWAY NO. 72
TWELFTH STREET

REGISTRATION

From the Ground Up: Innovative Green Homes

Registration Form

Thank you for submitting your credentials for *From the Ground Up: Innovative Green Homes*, a design competition for the single family house.

Please complete this form and include it along with your submission. The form must be bound in as the last page of your team's booklet. (Please print additional copies of this form and list the names/contact information for any team members that do not fit on this sheet.)

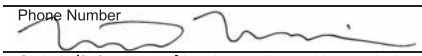
Each team must identify a primary contact. The primary contact must sign the Registration Form on behalf of the entire team. All future communication regarding your participation will be sent to the primary contact.

Primary Contact

Check one:

- ☐ Individual
- ☒ Firm

MARCIANO (Last Name)	MARTIN (First Name)
FIEDLER MARCIANO | ARCHITECTURE (Firm)	
212.868.5242 (Phone Number)	MARTIN@FIEDLERMARCIANO.COM (Email Address)



On behalf of our team, I hereby certify that this submission complies will the terms of the competition brief. (Sign Above)

Team Members

Check one: ☐ Individual ☒ Firm Rep

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605