

STATEMENT

The Atelier Dreiseitl's main focus is on water in all its forms. The studio has an extensive knowledge of water technologies, which is constantly tested and improved through in-house workshops. We build models on a 1:1 scale to test water behaviour and proposed water features. Long-term computer simulations provide the technical back up of these design experiments.

The scope of our work includes integrated sustainable stormwater management for urban parks and plazas, water features, swimming pools, water playgrounds, external and internal water features and housing developments. *Atelier Dreiseitl* has more than 25 years of experience in technical water system design, including natural water treatment systems, water flow patterns, rainwater harvesting, storage, treatment and reuse, as well as retention and infiltration techniques of grey and black water systems. We also apply heat exchange and climatization through use of water, including green roofs and water proofing through water feature detailing. We have facilitated and participated in numerous national and international community design workshops.

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

BACKGROUND

HD was born in the rural area around Ulm, Germany. Since his earliest childhood he has been captivated by nature, but especially water. He spent his most formative years in schools build on anthroposophic principles, which is reflected in his work today. After formal schooling HD trained in the German tradition of apprenticeships as a skilled craftsman to become an artist, namely a wood sculptor. Herbert has built his career as an artist in the course of apprenticeships in Norway, England, and Germany. Through his schooling and training with highly qualified, but moreover, innovative and unconventional teachers (Lothar Vogel, Heinz Haeussler) he furthered his appreciation for aesthetic in nature. As a young artist HD continued his education through intimate contacts with other artists such as Joseph Bueys, Hugo Kueckelhaus and John Wilkes He is truly an autodidact in his development as an artist and landscape architect.

He completed his required civil service as an art therapist in the drug rehabilitation centre "Heilstaette Sieben Zwerge", which is still in existence today. The summaries of his earliest experiences have lent a special social sensitivity to his work. In 1980, inspired by a vision for architecture, art and water, Herbert established the *Atelier Dreiseitl*. Through HD's lifelong involvement with a large network of his former teachers, with artists and scientists he has created a dynamic and cutting edge professional urban design studio. His unique philosophical and artistic insights have enabled Herbert to unite a multidisciplinary team of professionals and forge new paths in urban design. HD's gifted leadership has guided the *Atelier Dreiseitl* to work nationally as well as internationally which is reflected in the studio's numerous accolades.

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

EDUCATION

Freie Waldorf Schule, Ulm, Germany

Hochschule für Gestaltung, Ulm, Germany

Alanus Hochschule fuer Kunst und Gesellschaft, Bonn Germany

Holzbildhauer Berufsfachschule Oberammergau, Germany

WORK EXPERIENCE

1974 Architectural designer Crete Island, Greece

1974-1976 Civil Service, *Heilstaette Sieben Zwerge*, Salem, Germany

1976 – 1978 Project Manager, *Heilstaette Sieben Zwerge* Salem, Germany

1978 –1980 Assistant to John Wilkes, *Vibrea Flow Insitute*, Forest Row East Sussex, UK

1980 Inception of *Atelier Dreiseitl*, Ueberlingen, Germany

2002 Inception of *Atelier Dreiseitl Waterscapes*, Portland, USA Work Philosophy

HD's philosophical and artistic insights have enabled him to unite a multidisciplinary team of professionals and forge new paths in urban design. His goal has been to promote sustainable projects by applying the principles of his anthroposophic upbringing and combining functionality, aesthetic and social values in urban projects.

Public participation workshops have been essential in many design processes of rainwater management. The process community consultation and water visibility has been a key feature in many successful public space designs that are aseptically pleasing yet highly functional and sustainable.

In this sense HD acts as the creative and moderating link between all of the *Atelier Dreiseitl* specialists by encouraging a synergistic interface of art, ecology, engineering and hydrology. His team has become a leading force in modern and sustainable landscape design and water management.

The main focus of *Atelier Dreiseitl*'s work is on water in all its forms and functions. The importance and complexity of water in our modern society as a rapidly diminishing resource is addressed by finding aesthetically pleasing, yet sustainable and functional solutions to alternative storm water management.

The studio has accumulated an extensive knowledge of water technologies, which is constantly tested and improved through in-house workshops of water behaviour and proposed water patterns

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

in design projects. Long-term computer simulations provide technical back-up in this design process.

SELECTED DISTINCTIONS / AWARDS / COMPETITIONS

ASLA Merit Award, 2005, 3rd Place Competition Canal Park, Washington DC, USA

Design Prize 2005, Tanner Springs Park, Portland, Or, USA

New York City Green Building Design Award, 2004, New York, NY, USA

ASLA Award 2004, Masterplan Queens Botanical Garden, New York, NY, USA

LEED Platinum Certificate 2003, Queens Botanical Garden, New York, NY USA

German Real Estate Recognition Award, 2003, Siedlung Arkadien Asperg, Stuttgart, Germany

Design Review Commission Award 2003, Tanner Springs Park, Portland, OR, USA

ASLA Merit Award 2002, Chicago City Hall Green Roof Chicago, USA

Design Competition 1st Prize, „Middle Street“, Gevelsberg, Germany

Design Award 2001, City of Gummersbach, Germany

German Environment Award, 1991, Berlin, Germany

SELECTED TEACHING EXPERIENCE AND LECTURES

2006, University of Perth, Perth, Australia

2005, Harvard, Boston MA, USA.

2003, University of Virginia, School of Architecture, Charlottesville, VA, USA

2001, Architectural Academy (AA), London, GB

2001, Stanford University, Palo Alto CA, USA

1996 - 2000, ETH Zurich, Switzerland

1996, University Hannover, Germany

1978, Emerson College

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT

FOUNDER OF ATELIER DREISEITL

SELECTED WORKSHOPS

- Nine Mile Run, Pittsburgh, PA, USA December 2005
- Linnenbauer Platz, Herford, Germany December 2005
- Four Mile Run, Arlington, VA, USA February 2005
- Heiner Metzger Platz, Neu Ulm, Germany July 2004
- Prairie Crossing, Chicago, IL, USA November 2004
- Lehenhof, Deggenhausen, Germany June 2003
- Tanner Springs Park, Portland, OR, USA December-April 2002-3

EXHIBITIONS

- 2004, Experimental Garden Exhibition, Chaumont-sur-Loire, France
- 2003, Wasserfestival, (Water and Art) Ueberlingen, Germany
- 2002, Landesgartenschau (The Art of Stormwater), Ostfildern, Germany
- 2000, EXPO 2000, Hannover, Germany

SELECTED PROJECTS

- Neu Ulm, Germany**, Urban Plaza Design and public participation, 2006
- Oulu, Finland**, landscape and stormwater management design for a new sustainable housing area, 2005
- Oslo, Norway**, landscape and art concept for a new sustainable city at the former airport. Under construction
- Lille, France**, water concepts for strategic urban planning of new city quarter. 2004
- Hangzhou, China**, integrated park, water feature and stormwater management design for a lakeside development.
- North Park Square, Portland**, Downtown water park with integrated rainwater concept. 2005
- Queens Botanical Garden, New York**, „Green“ Administration Building rain water and grey water systems and landscapes, including a green roof, sustainable 46,000 sq ft parking „garden“, 0% run-off strategy, under construction.
- Paragon Development Center, London**, Sustainable rainwater feature as part of technical cooling concept for Formula 1 car development center. 2005
- SolarCity, Austria**, Adjacent landscape areas for new sustainable city. Under Construction.

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

SELECTED PUBLICATIONS

ARTICLES

Landscape Architecture Magazine, June 2005; „A Canal Ran Through It“

Landscape Design, May 2005, China, „The Scharnhäuser Park in Ostfildern“

Puur Bouwen, March 2005, Holland, „Water = (be)leven“

Gardens Illustrated Magazine, London, November 2004

D'Architectures, No.119 March 2002 „Poisson Pilote“

Building Design February 2002 „Water On the Brain“

LeSoir, Jeudi 7 Fevrier, 2002

Landscape Architecture, July 2001 „Holding What You Can't Hold Tight“

BioCity, Japan 2001/No.22 „Waterscape“

BOOKS

Dreiseitl, H. and D. Grau (2005). *New waterscapes: planning, building and designing with water*. Basel, Boston, Birkhäuser.

Grau, D. and H. Dreiseitl (2001). *Waterscapes: planning, building and designing with water*. Basel, Boston, Birkhäuser.

Neue Wege für das Regenwasser 1995 (New Ways with Rainwater), München, Wien Oldenbourg Verlag, Wolfgang Geiger, Herbert Dreiseitl

ETH-Zentrum (Research Institute for Hydraulic Engineering) Zurich, Switzerland

Virbela Flow-Form Association, Forest Row East Sussex, UK

Institut für Strömungswissenschaften (Institute for Flow Science) Herrschried, Germany

Max Planck Institut, Göttingen, Germany

Prof. Dr.-Ing. Wolfgang Geiger, Universität Gesamthochschule Essen (University of Essen), Essen Germany

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

February 9th, 2007 · 11:00 am

»21. Oldenburger Rohrleitungsforum 2007«

Technical College Oldenburg · Germany

Lecture Herbert Dreiseitl

Topic: »Stadtgestaltung mit Regenwasser«

November 15th, 2006 · 10:30 am

»Greenbuild International Conference and Expo 2006«

Colorado Convention Center · Denver · USA

Lecture Herbert Dreiseitl

October 10th, 2006 · 9:00 am + 11:15 am

»1st National Hydropolis Conference«

Burswood Convention Center · Perth · Australia

Lecture Herbert Dreiseitl

Topics: »What Makes a City a Successful Hydropolis?«

»Active Participation - A Tool to Reconnect People with their

Water Environment«

September 27th, 2006 · 10:15 am

»1st KLC International Symposium on City Planning 2006«

COEX · Seoul · South Korea

Lecture Herbert Dreiseitl

Topic: »The Art of Integration - Water in Nature, Urban Planning
and Human Culture«

September 8th, 2006 · 8:45 am

»Conference on Water+Design«

The American Institute of Architects · Washington, DC · USA

Lecture Herbert Dreiseitl

Topic: »The State of Water«

July 18th, 2006 · 2:00 pm

Conference »Modernes Regenwassermanagement«

Horticultural Show Heidenheim · Germany

Lecture Herbert Dreiseitl

Topic: »Wasser in der Stadt - Möglichkeiten der Planung und
Gestaltung«

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

May 12th, 2006 - 10:00 am

Seminar »Wasser - Medium, Gestaltung, Wirkung«

Horticultural Show Wernigerode - Germany

Lecture Gerhard Hauber

Topic: »Wasser - Gestaltungselement in der Architektur«

November 10th, 2005 - 11:50 am

Seminar of the fbr »Betriebs- und Regenwassernutzung -
Bestandsaufnahme und Zukunftsvision«

Ökohaus Frankfurt, Kasseler Straße 1a, Germany

Lecture Herbert Dreiseitl

Topic: »Regenwasser - Gestaltung in der Architektur«

October 25th, 2005 - 7:00 pm

Seminar at the University of Illinois

Plym Auditorium, Urbana-Champaign, USA

Lecture Herbert Dreiseitl

Topic: »New Waterscapes«

October 24th, 2005 - 6:30 pm

Lecture Series of the »New York Botanical Garden«

The Urban Center, 457 Madison Avenue, New York, USA

Lecture Herbert Dreiseitl

Topic: »Water in our Cities«

October 21st, 2005 - 3:30 pm

Symposium of the Harvard Design Magazine »Can Design Improve
Life in Cities?«

Harvard Design School, Barker Center, Thompson Room,
Cambridge, USA

Lecture Herbert Dreiseitl

Topic: »Parks and Public Space in City-Making«

September 22nd, 2005 - 9:00 am

»International Conference on Urban River Restoration« of the TU
Dresden

Kathedralforum, Gerhardt-Hauptmann-Saal, Dresden, Germany

Lecture Herbert Dreiseitl

Topic: »How to Reconnect Water with an Urban Society?«

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

August 14th, 2005 - 3:00 pm

Seminar of the «Goetheanistischer Kunstverein»
Vapriikin Auditorio, Tampere, Finland
Lecture Herbert Dreiseitl
Topic: «Wasserinstallationen - Freude und Ökologie in der
Stadtumgebung»

August 11th, 2005 - 1:00 pm

Seminar of the City of Oulu
Hotel Lasaretti, The Festival Hall, Oulu, Finland
Lecture Herbert Dreiseitl
Topic: »Water in the Urban Culture and Examples for Solutions in
Modern Urban Cities«

June 7th, 2005 - 2:30 pm

Seminar of the Associazione »Sentinella dei Fiumi«
Teatro Comunale di Colonia Veneta, Verona, Italy
Lecture Herbert Dreiseitl
Topic: »L'esperienza del bacino del fiume Emscher, Distretto della
Ruhr«

June 3rd, 2005 - 6:00 pm

Waldorflehrerseminar
Waldorfschule Ravensburg, Germany
Lecture Herbert Dreiseitl
Topic: »Das Wasser und seine Phänomene«

May 30th, 2005 - 10:55 am

»The First International Symposium on Development
of Urban Waterscapes and Water Environment Management«
Xi Yuan Hotel, International Conference Room, Beijing, China
Lecture Herbert Dreiseitl
Topic: »Sustainable Use of Water in Cities«

May 2, 2005 - 8:45 am and 1:00 pm

2005 Governor's Conference on Greenways · Blueways and Trails ·
Richmond · Virginia · USA
Lecture and Session Herbert Dreiseitl

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

April 28, 2005 - 8:00 am - 5:00 pm

Symposium Wisconsin Green Building Alliance · Milwaukee · Wisconsin · USA

Lecture: Herbert Dreiseitl

Topic: »Waterscapes: Planning · Building and Designing with Water«

April 27, 2005 - 8:00 pm

Michael Fields Agricultural Institute · East Troy · Wisconsin · USA

Lecture: Herbert Dreiseitl

Topic: »Creative Waterscapes: New Landscape Engineering«

April 25 and 26, 2005

Pittsburgh · Pennsylvania · USA

Several Lectures Herbert Dreiseitl

April 23, 2005 - 1:00 pm

University of North Texas · WaterWays 2005

The Nasher Sculpture Center · Dallas · Texas · USA

Lecture: Herbert Dreiseitl

Topic: »Waterscapes: Planning, Building and Designing with Water«

September 14, 2004

Bürgerhaus · Landesgartenschau Burghausen

Exhibition opening »Regen bringt Segen«

Lecture Herbert Dreiseitl

September 7, 2004 - 10:05 am

Aula der Hochschule Wädenswil · Grüental · Wädenswil · Switzerland

Stauden- und Gehölztage »Stein und Wasser - Gegensätze inspirieren«

Lecture Herbert Dreiseitl

Topic: »Gestalten mit Wasser«

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

August 19, 2004 - 10:30 am

Drammens Teater · Drammen · Norway
Vannmiljøkonferanse for Drammensregionen

Lecture Herbert Dreiseitl

Topic: »Water - architecture and culture in urban and rural areas«

September 23rd, 2003 - 1:45 pm

Tagungsrotunde des Messezentrums · Industriestraße · Rostock
IGA 2003 · Symposium »Stein im Raum«

Speaker: Herbert Dreiseitl

Topic: »Gestaltungspotenziale der Stadthydrologie«

01.07.2003 Tuttlingen

Organizer: Stadt- und Gemeindegärtner Euregio Bodensee
»Trilogie 2003«, Symposium, Stadt- und Gemeindegärtner Euregio
Bodensee

25.06.2003 Rostock

Organizer: BetonMarketing Nord, BetonMarketing Ost u. a.
IGA/Forum Zukunft grünes Bauen, Seminar »Gestalten mit Wasser«

20.05.2003 Güglingen

Organizer: Süd Zement Marketing GmbH, City of Güglingen u. a.
Zukunft grünes Bauen, Exhibition Opening »Regen bringt Segen
- Nachhaltige Siedlungsentwässerung«

15.05.2003 Freiburg

Organizer: Stadtplanungsamt Freiburg
Conference »Architektur und Wasser«

13.05.2003 Munich

Organizer: Süd Zement Marketing GmbH,
GaLaBau Bayern e. V. u. a.
Exhibition Opening »Regen bringt Segen - Nachhaltige
Siedlungsentwässerung«

HERBERT DREISEITL - ARTIST, LANDSCAPE ARCHITECT, FOUNDER OF ATELIER DREISEITL

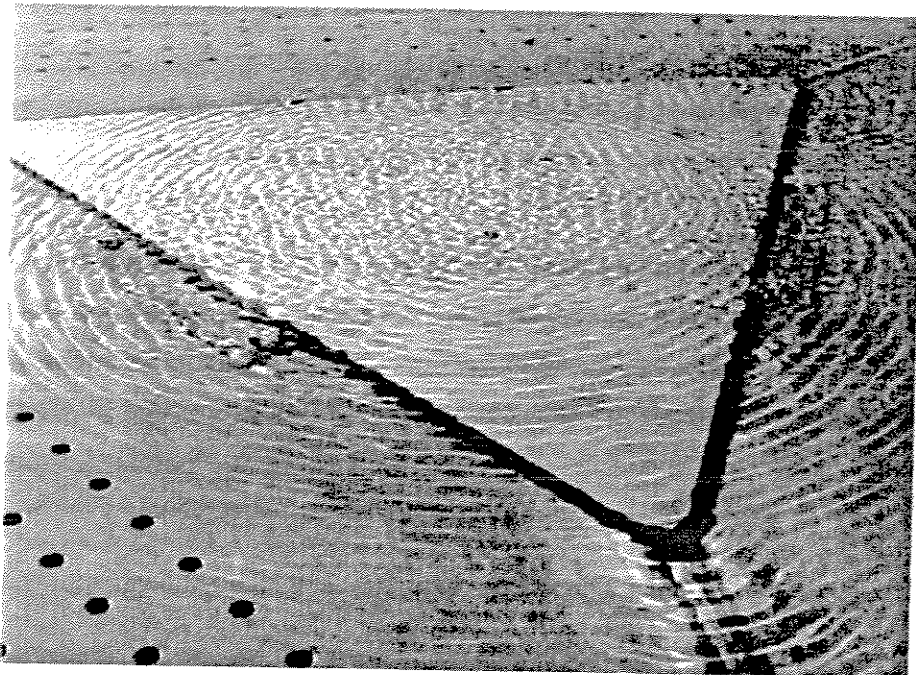
COLLABORATORS:

Conservation Design Forum, City, IL USA
Foster and Partners, London, UK
GreenWorks PC, Portland, OR, USA
Herzog Architektur, Munich, Germany
Renzo Piano, Paris, France
Robert Woodward, City, Australia
SmithGroup JJR, Madison, WI USA
Zaha Hadid, London, UK
Herzberger, Amsterdam, Holland
ZGF Seattle, WA, USA

PROFESSIONAL AFFILIATIONS

Registered Landscape Architect in the German Chamber of
Architects Subdivision Nordrhein-Westfalen # L41560
Registered Artist in VBKW - Verband Bildender Künstler Württemberg
e.V.
Registered Member of the ASLA # 778625
Member ATV/DVWK, fbr, SIWAWI

EXPO 2000 HANNOVER - WATER TRACES
HANNOVERSCH. MÜNDEN - GERMANY



TOWN HALL PLAZA - HATTERSHEIM - GERMANY

PROJECT PROFILE

The commission to design and construct Town Hall Plaza was awarded through an open design competition.

The projects over-riding goal was to revitalize the center of the city through the re-design of this central plaza. Following completion the plaza's ability to do this was witnessed by a dramatic increase of people around the Town Hall. Visitors to the city-center increased by 30-50 %, the area became safer and now shows noticeably less vandalism. Surrounding businesses increased their sales volumes.

At the center of this design lies a central water axis from source point to a nearby pond. This system is fed by circulating stormwater and acts as a connecting element between the town hall at the market square and the municipal park.

Details of this water axis start with an intricate water cascade gurgling down the stairway at the town hall. The waters journey goes on through a meandering channel system along the market square all the way to the municipal park, where it features a ford, cleansing biotope and retention pond.

Rainwater collects on the surface of the market place in channels which lead into a planted cleansing biotope. A cistern is located at its lowest spot, from where a pump returns the water to the top of the staircase at the town hall. Excess rainwater flows into the adjacent retention pond.

PROJECT DATA

Client

Stadt Hattersheim

Planning and design

1988-1992

Construction

1. Phase 1989 / 2. + 3. Phase 1990- 1993

Size

4 600 m²

Length of water axis

120 m

Water surface

2 000 m² Pond

Total volume

2 500 m³

Circulation volume

450 l/min

Maximum water depth

250 cm

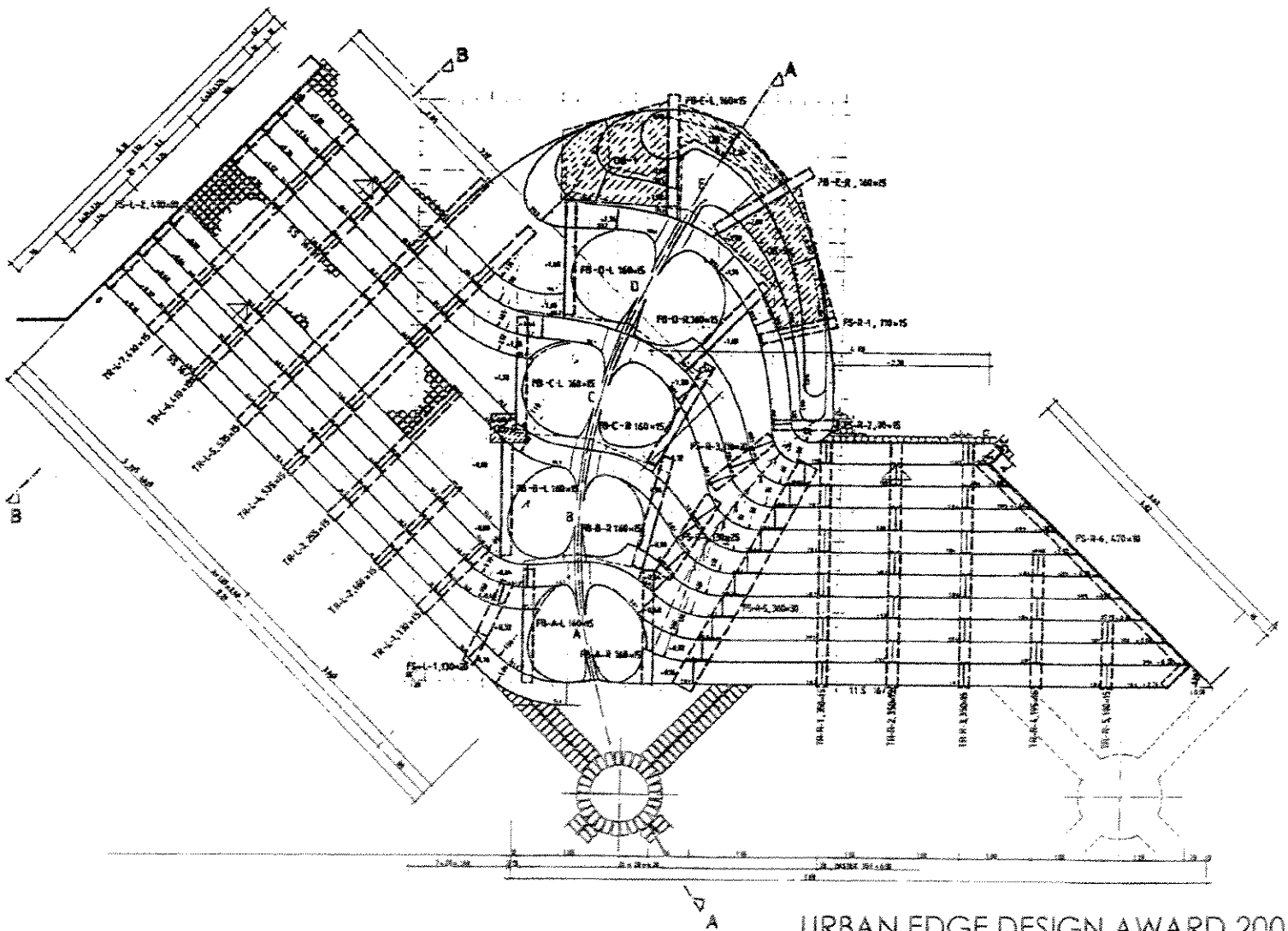
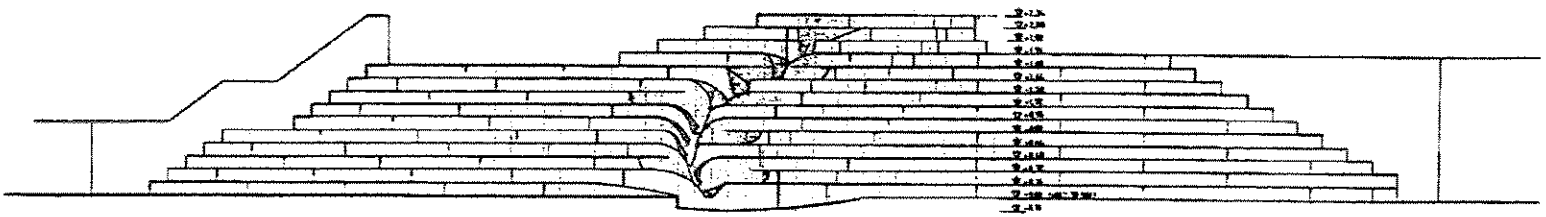
Minimum water depth

5 cm

Water cleansing

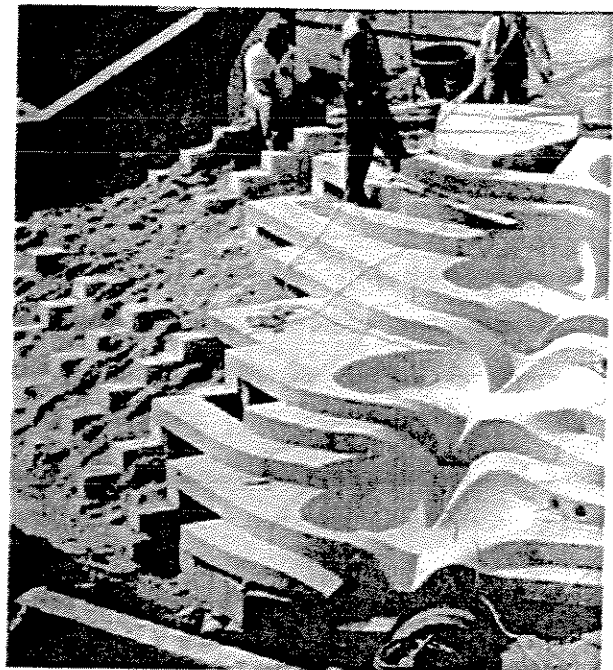
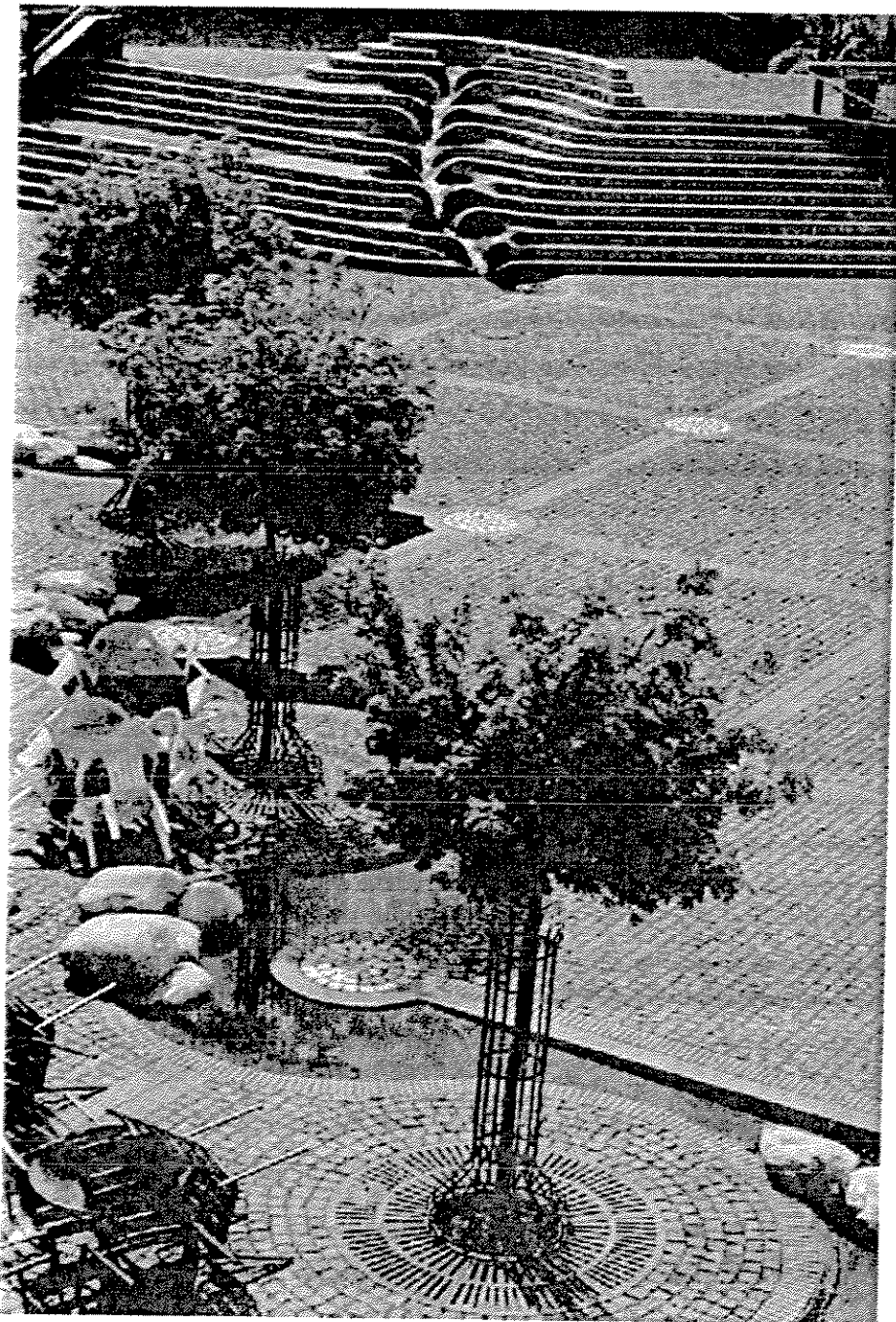
Cleansing biotope

TOWN HALL PLAZA - HATTERSHEIM - GERMANY



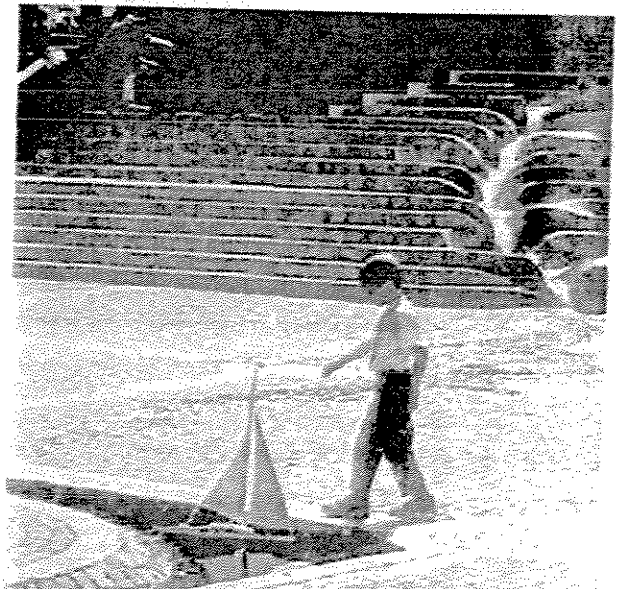
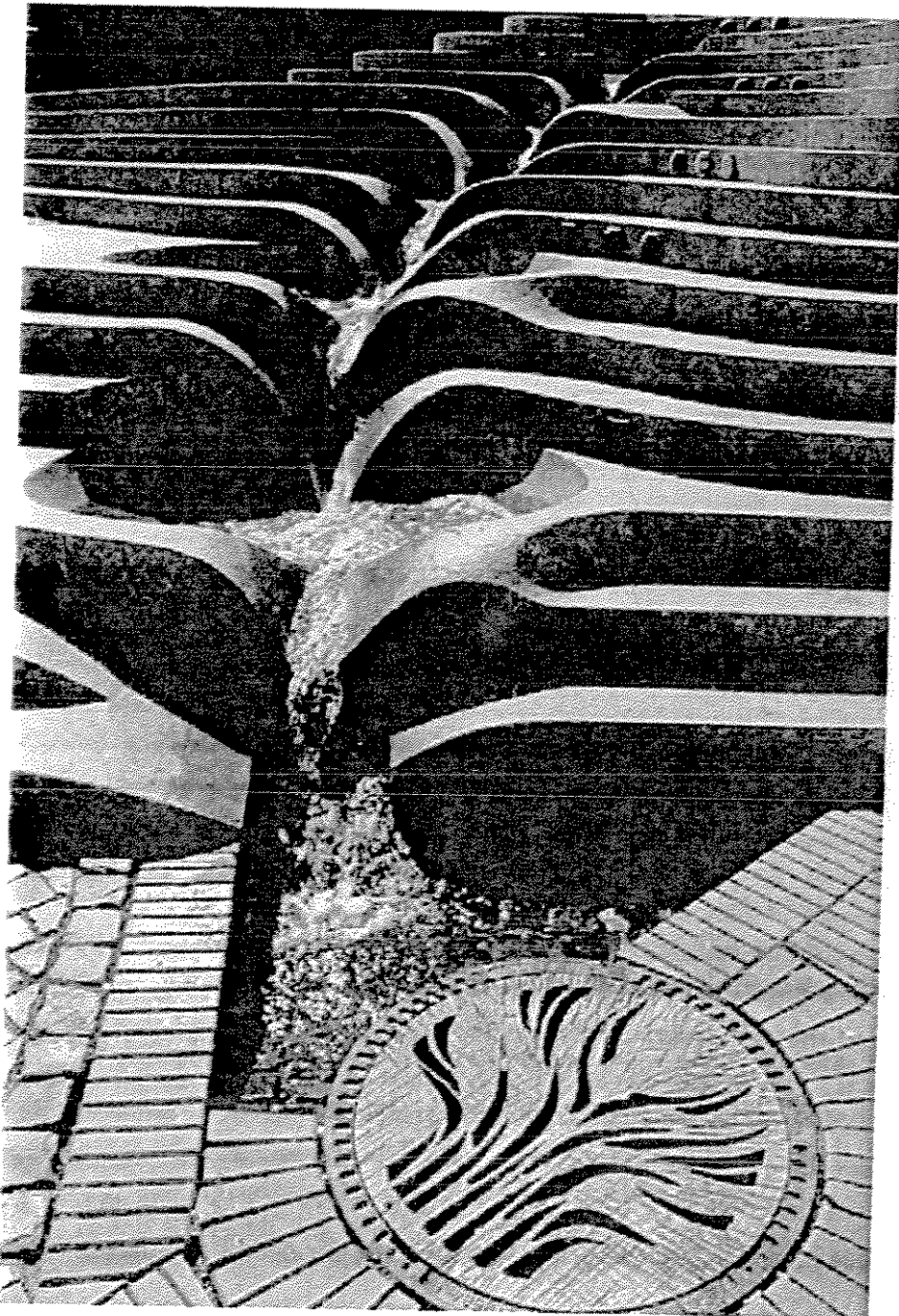
URBAN EDGE DESIGN AWARD 2006

TOWN HALL PLAZA - HATTERSHEIM - GERMANY



URBAN EDGE DESIGN AWARD 2006

TOWN HALL PLAZA - HATTERSHEIM - GERMANY



URBAN EDGE DESIGN AWARD 2006

HEINER-METZGER-PLATZ - NEU-ULM, GERMANY

PROJECT PROFILE

On many issues Neu-Ulm is overshadowed and out-muscled by her elder, bigger sister, Ulm. When the Neu-Ulm train station was demolished and relocated underground, the opportunity for a signature urban renewal project that would help change this image, the redesign of the Heiner-Metzger Plaza in front of the former train station, was presented. Neu-Ulm's dynamic mayor did not hesitate to get the town citizens in on the action. In particular, high school students were included in a design workshop. The themes 'a meeting point for generations' and 'fun space' started to crystallize. Ideas started to flow for a place with a contemporary concept of 'leisure', active, moving, dynamic, and in every case including water.

The completed plaza enacting the workshop ideas is based on use zones. An internal corner has a compacted gravel floor and is sheltered by trees. This is an active play area with a funky climbing wall, resilient table football and outdoor chess. The external corner, bounded by the two roads, is an ensemble of water screens. These are highly visible identity markers, subtly and transparently shielding the plaza from traffic with suggestive views cut through. They define an inner space which is active and fun, with changing water patterns and intensities. Seating blocks were designed by students and sited together in the 5 centimeter shallow water basin. Inclusion and acceptance by the local youth is the ultimate safeguard against vandalism.

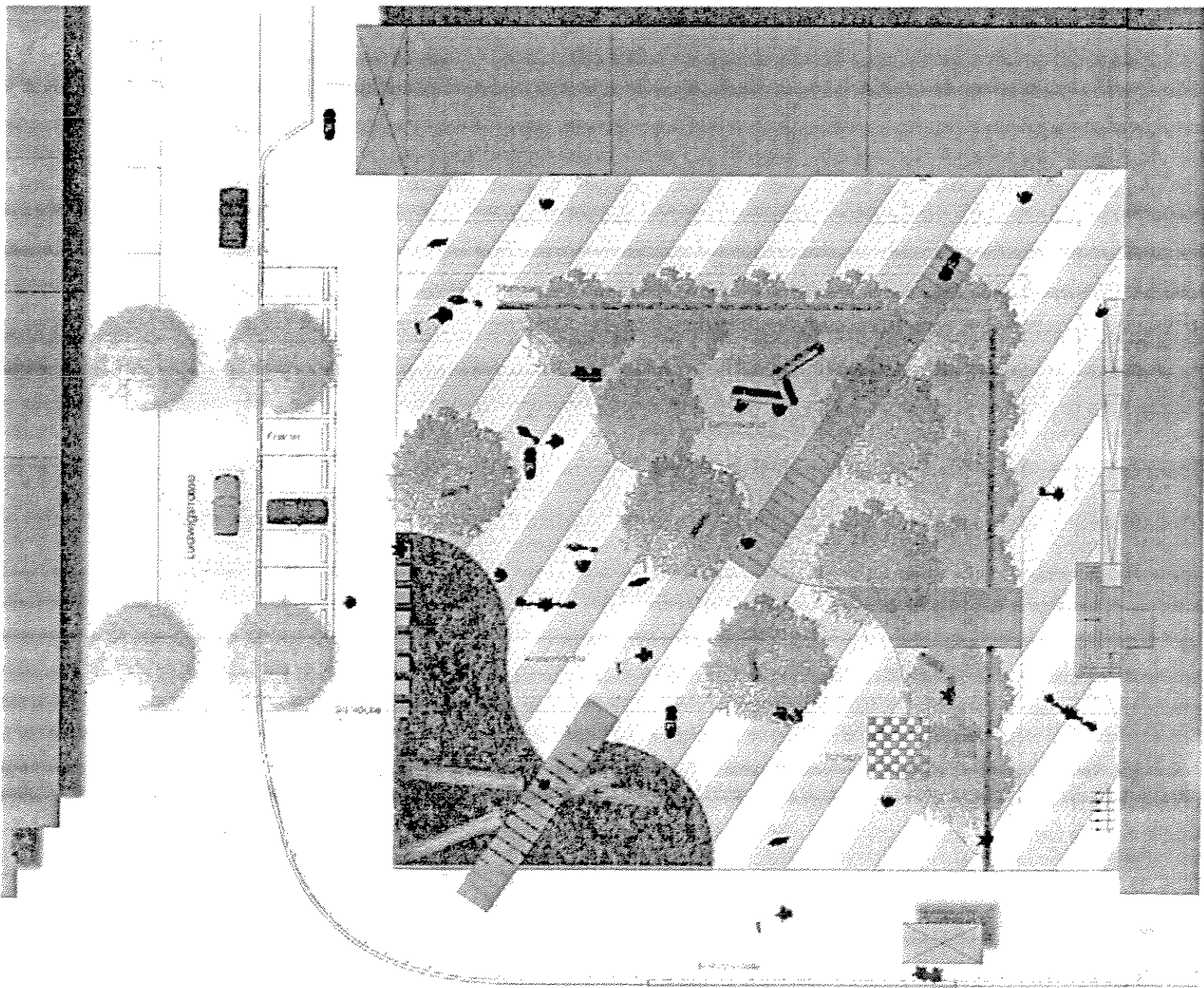
Stormwater run-off from the plaza is collected, filtered and then infiltrated in constructed layers of gravel under the paving. Instead of using environmentally and financially expensive potable water, ground water is used to supplement the circulation systems of the water features.

Upon completion, the positive press reviews felt like a reward for everyone especially after all the hard work that went into the project. So far the new Heiner-Metzger Plaza is proving the worth of a community.

PROJECT DATA

| |
|---|
| Client |
| City of Neu-Ulm |
| Planning and design |
| 2003-2004 |
| Construction |
| 2004-2005 |
| Size |
| 2,100 m ² |
| Water surface |
| 240 m ² |
| Annual rainfall |
| 750 mm |
| Rainfall intensity r15(1) |
| 114 l/s/ha |
| Drainage method |
| Sedimentation manhole DN1200, infiltration trench, Emergency overflow to MW-Canal |
| Infiltration and retention area |
| 60 m ² / 20 m ³ retention volume |
| Stormwater event |
| 5 years |

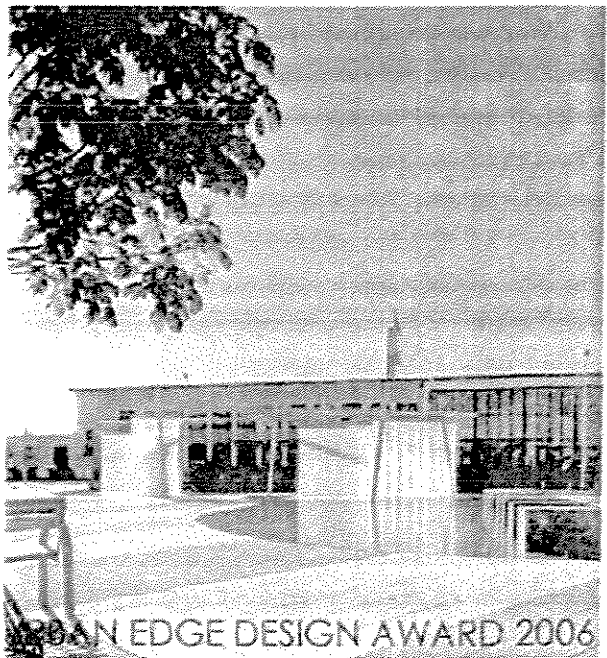
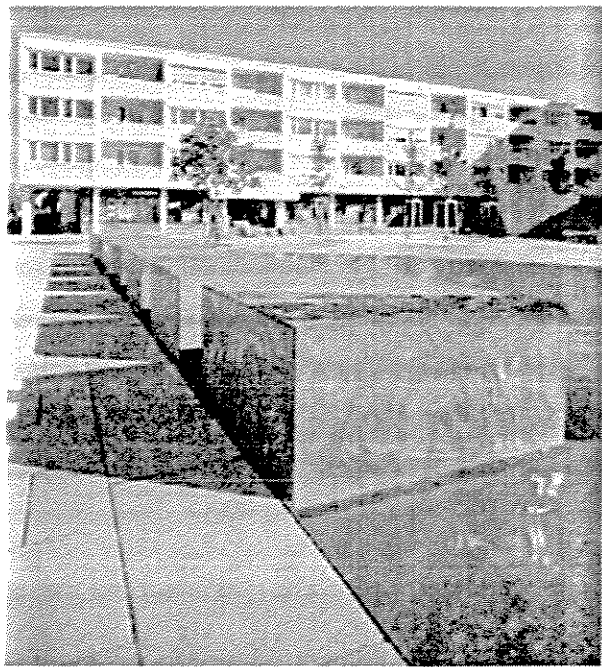
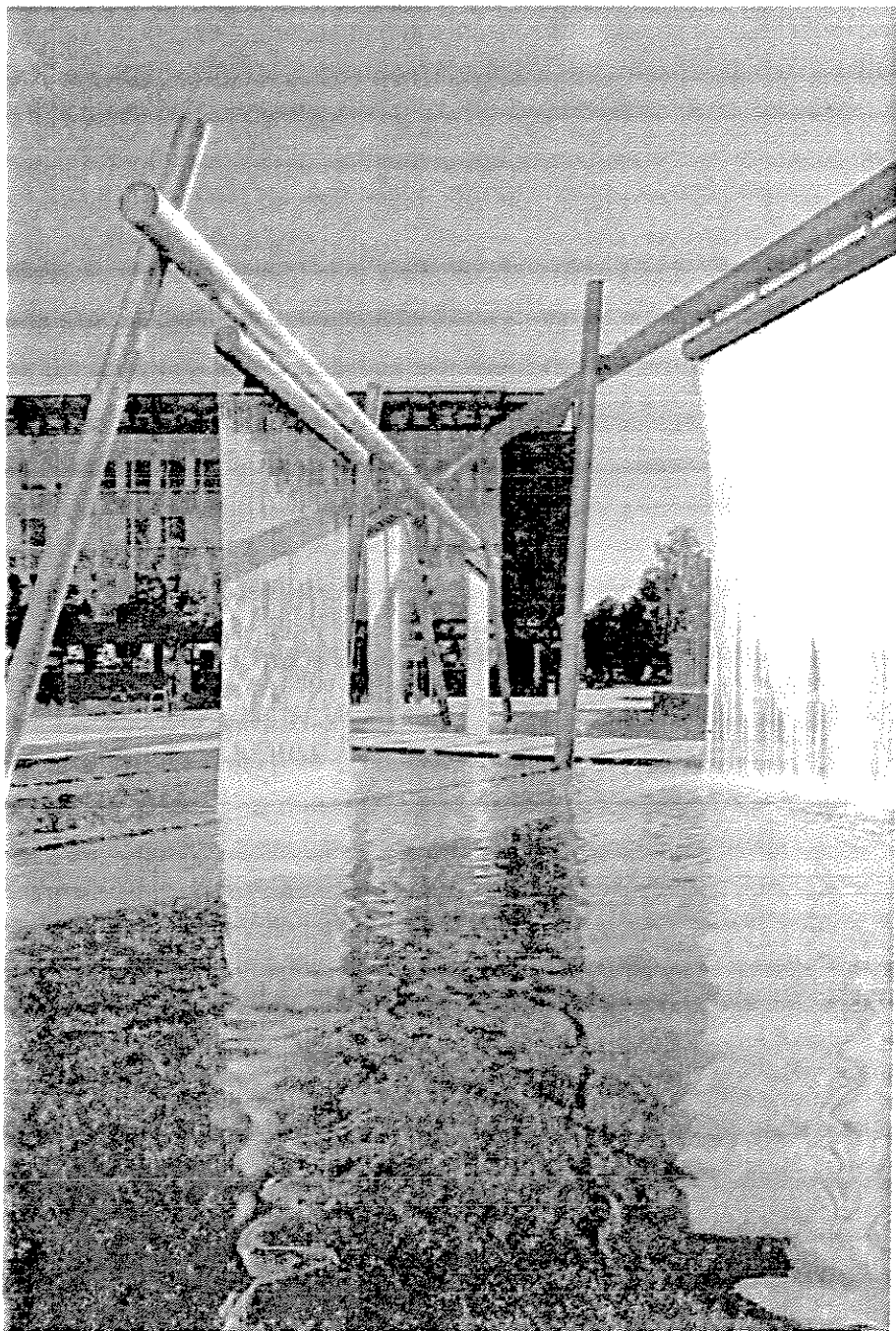
HEINER-METZGER-PLATZ - NEU-ULM, GERMANY



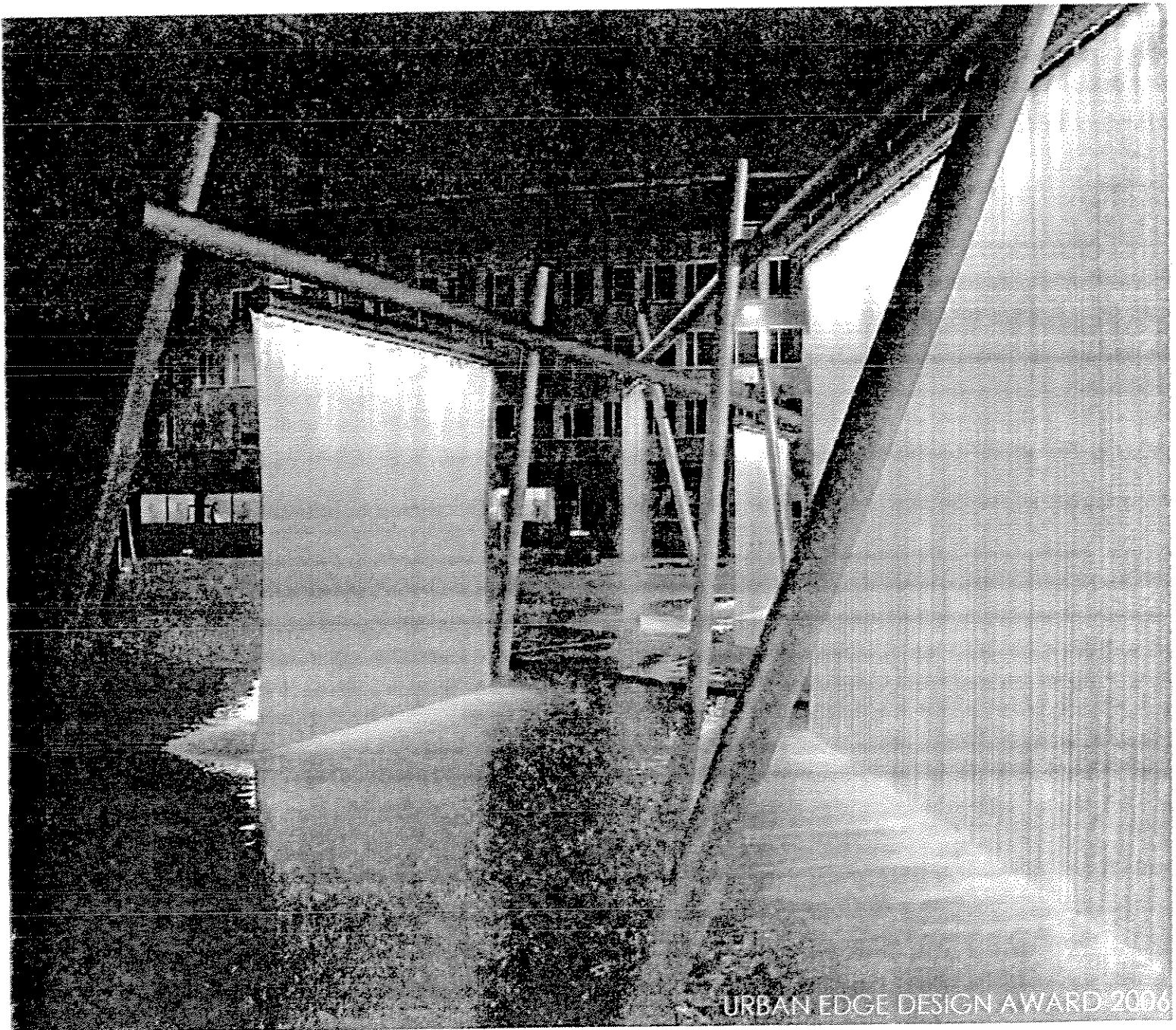
HEINER-METZGER-PLATZ - NEU-ULM, GERMANY



HEINER-METZGER-PLATZ - NEU-ULM, GERMANY

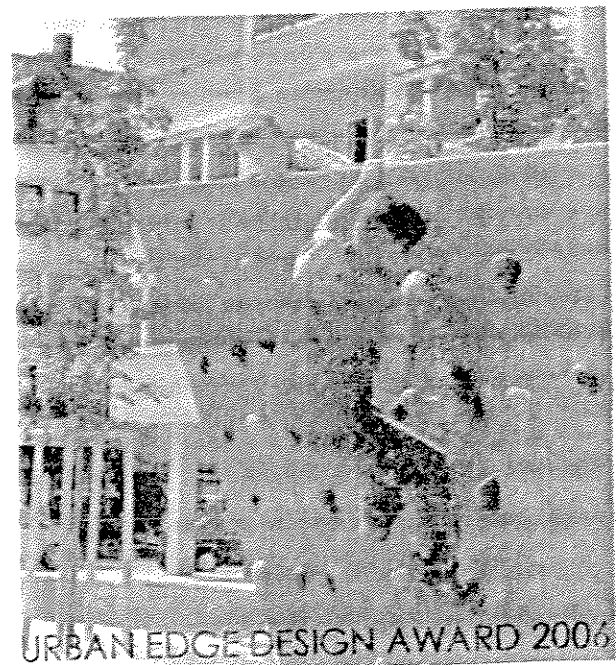


HEINER-METZGER-PLATZ - NEU-ULM, GERMANY



URBAN EDGE DESIGN AWARD 2006

HEINER-METZGER-PLATZ - NEU-ULM, GERMANY



URBAN EDGE DESIGN AWARD 2006

TOPPILANSAARI PARK - OULU, FINLAND

PROJECT PROFILE

A new green housing development in Toppilansaari, a suburb 3 km north-west from Oulu, as sustainable planning pilot project.

Part of the Housing Expo Oulu 2005

The new city suburb Toppilansaari was completed in 2005 with a variety of recreational spaces integrating stormwater management into the outdoor design.

Form with function is the ecological and economical premise of the project. Rainwater from roofs and paved surfaces are collected in swales which form the „Meripojanreitti” - „Park of the Young Sailor”. The soft topography of the swales mirrors the flow of water, raised planting beds echo this movement. The stormwater is retained, purified and infiltrated in the swales. During major storms, stormwater can overflow through a strong park axis into a section of the adjacent wetland „Retinranta”. A highly sensitive wetland forest and beach („Retinranta”) are protected through attractive recreational opportunities within and directly around the new suburb. Strategically laid paths allow access to the nature area, while safe-guarding its ecological integrity.

The most northern and southern end of the „Park of the Young Sailor” are highlighted with landmark water-light-ice-and-sound installations. The heart of the park is an activity area with a playground and informal play areas. A water-wetland axis at the center connects the park to the nature reserve „Retinranta”.

Wooden boardwalks protect the sensitive wetland plants and open up views into the nature reserve. Peace and open space harmonize with naturalistic design accents, which are framed by groupings of trees. The park crosses over foot, bike and circulation routes. Here the paving is laid in waves, emphasizing that the park flows with a natural spatial logic across these intersections.

PROJECT DATA

Client

City of Oulu

Planning and design

2003-2004

Construction

2004-2005

Total area

75,000 m²

Residents

3,000

Annual rainfall

460 mm (half snow)

Drainage method

Drainage swale and ditch, infiltration swale

Infiltration and retention area

1,200 m² infiltration area / 1,000 m² retention area

Stormwater event

5 years

Cleansing biotope area

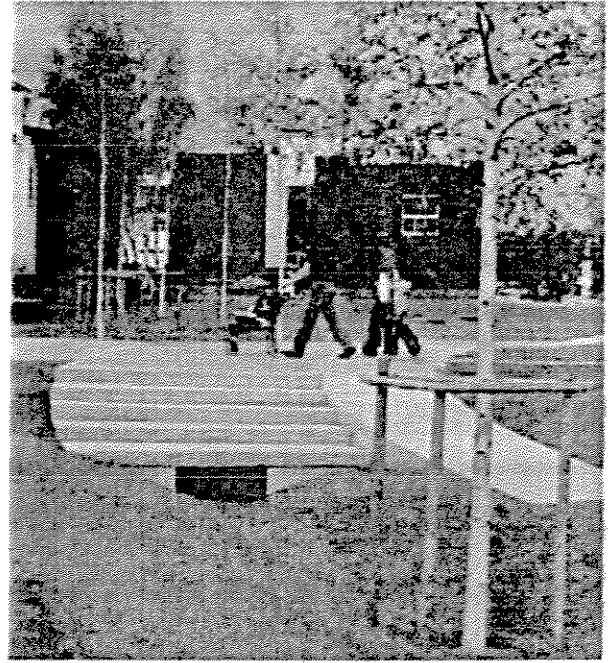
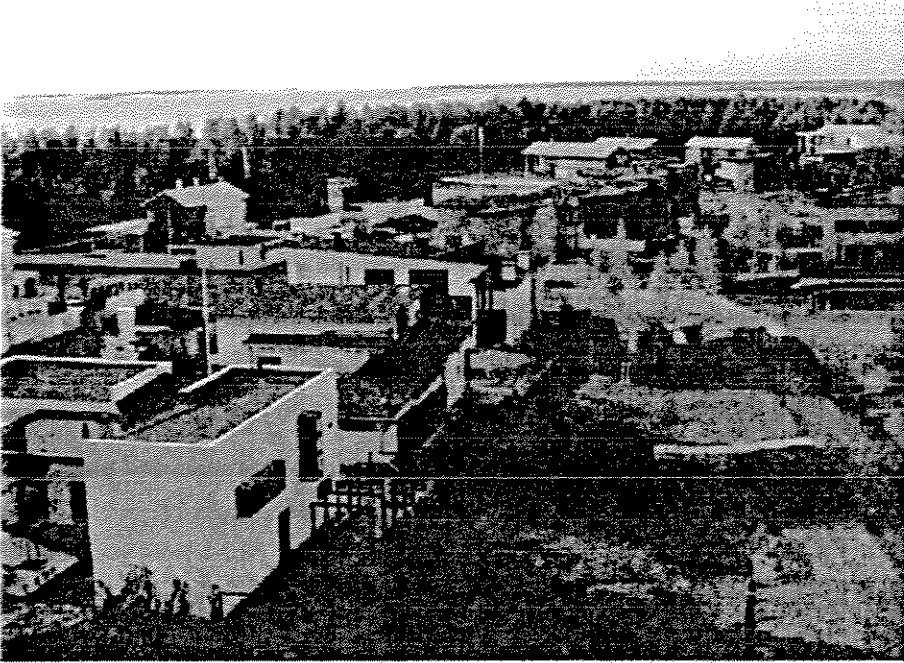
Ca. 30 m²



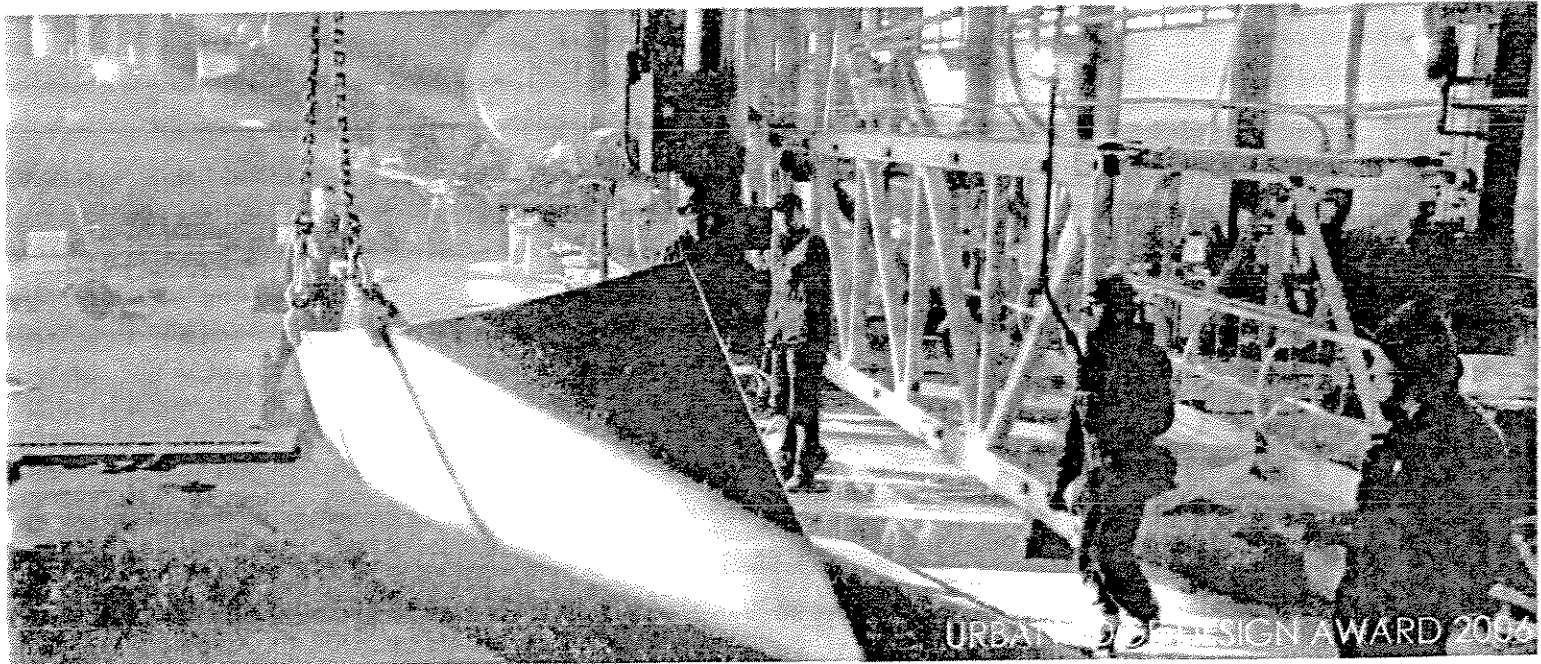
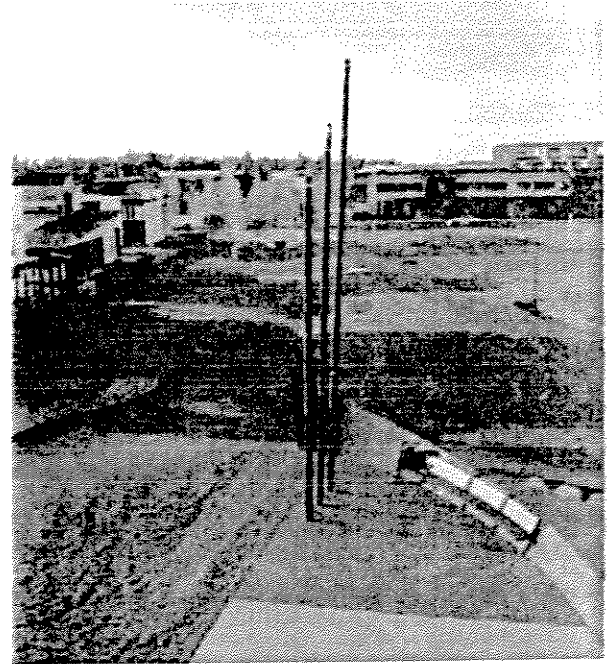
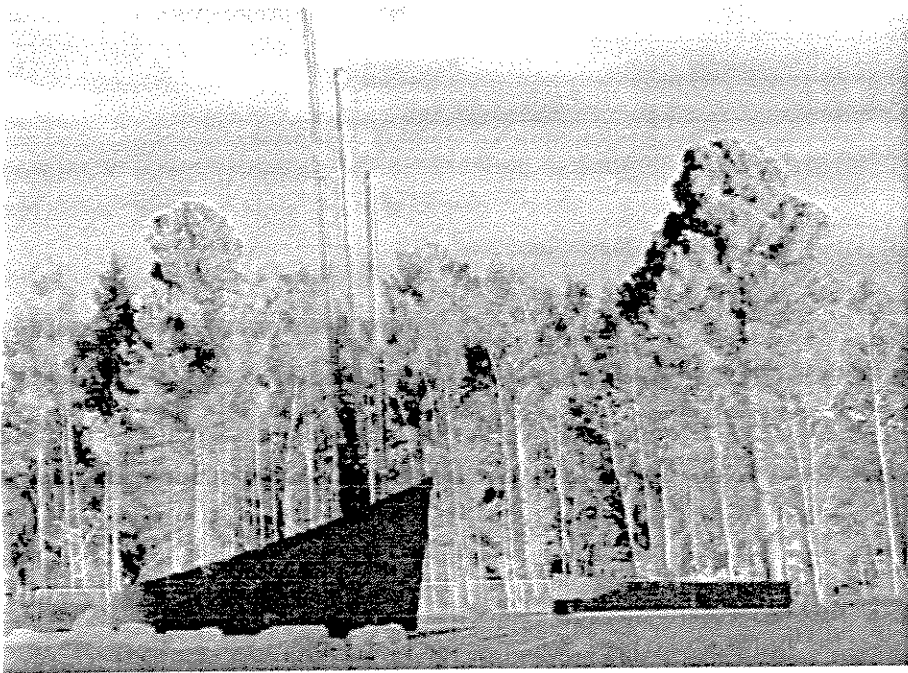
TOPPILANSAARI PARK - OULU, FINLAND

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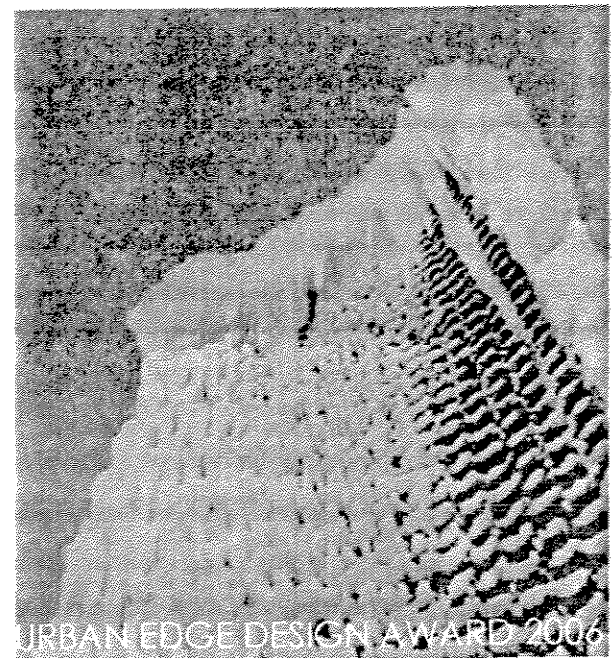
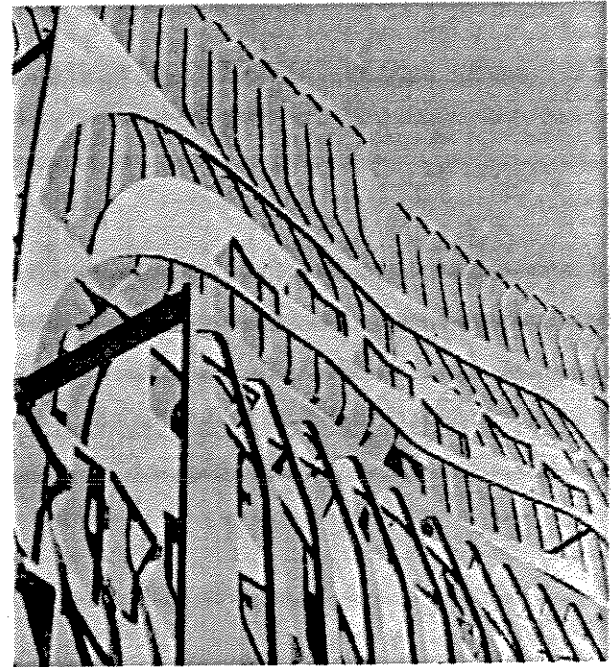
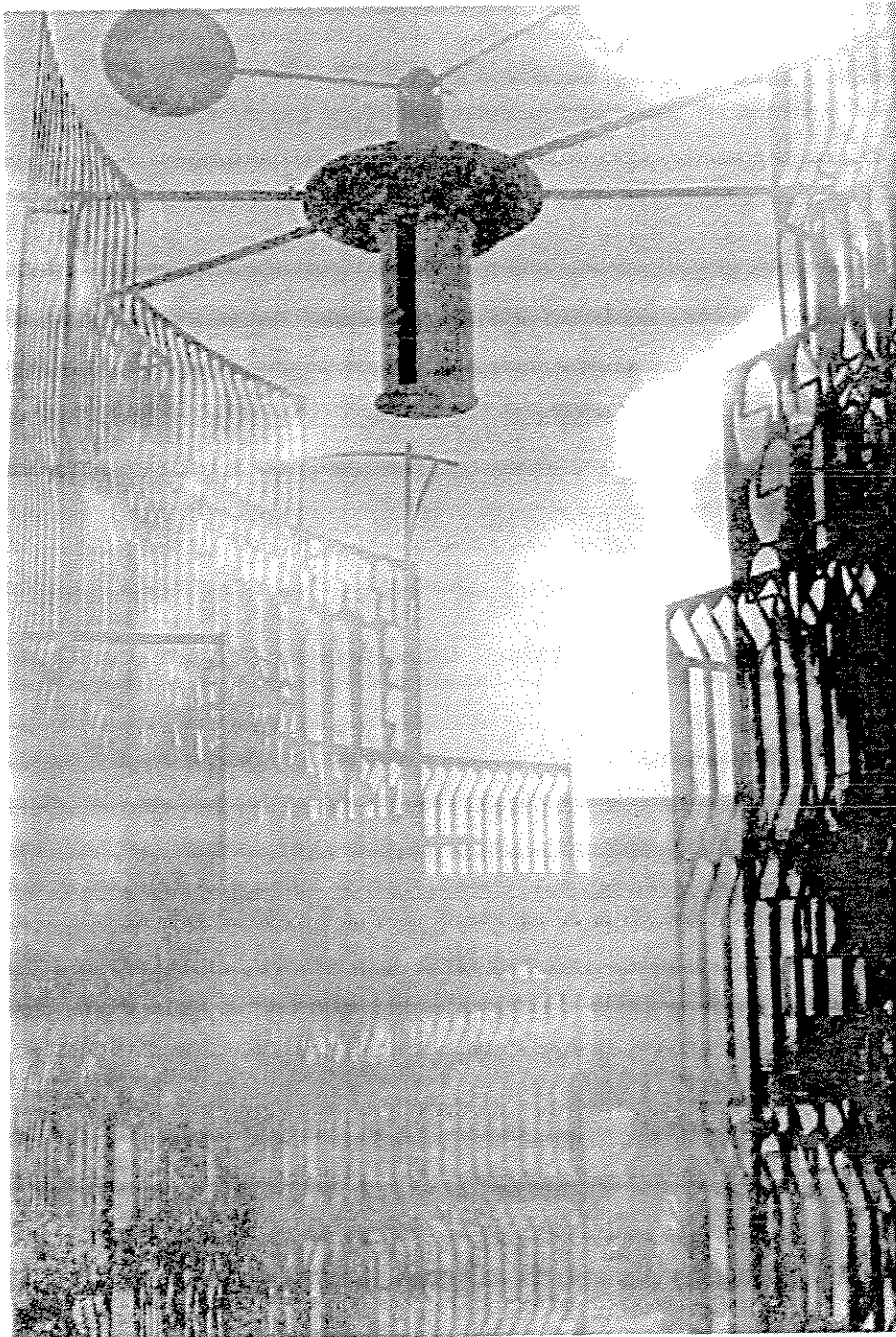


TOPPILANSAARI PARK - OULU, FINLAND



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TOPPILANSAARI PARK - OULU, FINLAND



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'PARAGON' McLAREN TECHNOLOGY CENTRE

LONDON, UK

PROJECT PROFILE

Located in a site of unique natural beauty, the building – designed by Foster and Partners – is a transparent glass structure, half-sunken into the hillside to reduce its visual impact. The size of the building is further disguised by a large adjoining artificial lake which wraps like a ying into the yang of the building. Through reflections and surface movements mirrored onto the glass, the building stands with poetic lightness.

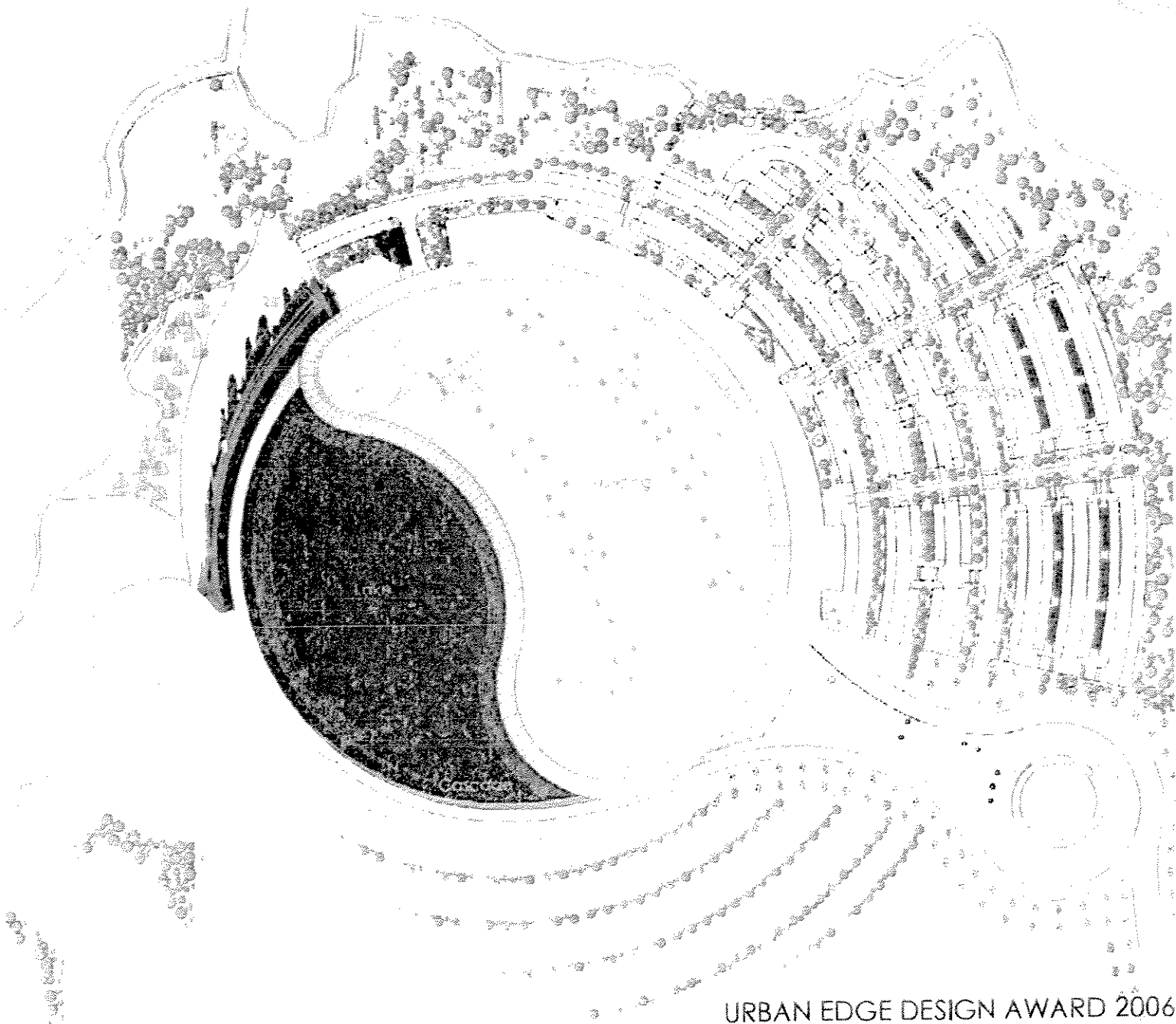
The water features, which compliment the sweeping curves of the building, are sustainably conscience as well, combining stormwater management with a water cooling system for building operations. Rather than relying 100 % on conventional cooling towers, the lake water acts as a low impact cooling agent, optimized aesthetically as a highly visible operating system. The formal lake has a surface area of over 16,000 square meters, and receives stormwater run-off directly from the roof.

A 180 meter long, 4 meter high cascade peels out of the building, accompanying the VIP-road, the main access to the building for guests and clients. This feature was designed specially to vaporize the water into small droplets, thus promoting oxygenation of the water, cooling and a white water visual effect. The water itself is kept in top condition by a 2,100 square meter cleansing biotope. No chemicals are added to the lake. It is essentially a natural water body.

PROJECT DATA

| | |
|--|--|
| Client | McLaren |
| Planning and design | 2000-2002 |
| Construction | 2002-2004 |
| Site area | Building area 30,000 m ² / Site total 72,000 m ² |
| Water surface | Lake 16,200 m ² / 25,000 m ³ |
| Annual rainfall | 640 mm |
| Rainfall intensity r15(1) | 3.5 l/s/ha |
| Water treatment | Cleansing biotope, 2,100 m ² area |
| Infiltration and retention area | Overflow into River Bourne |
| Stormwater event | 30 years |
| Length of cascade | 170 m |
| Flow rate | Normal 200 l/s Maximum 330 l/s |
| Heat exchanges | 9 mW |
| Cooling Towers | 3 mW |

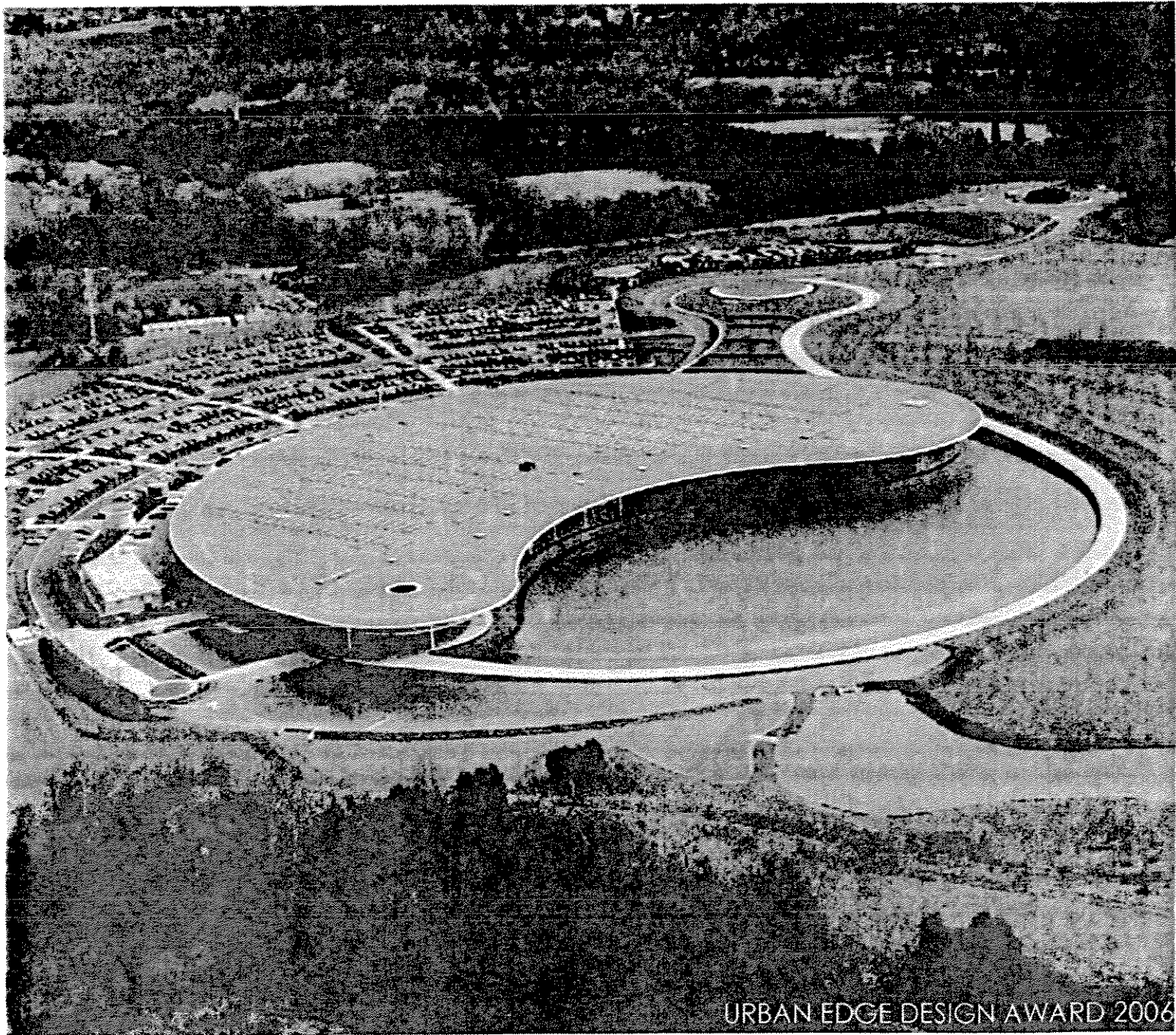
'PARAGON' McLAREN TECHNOLOGY CENTRE
LONDON, UK



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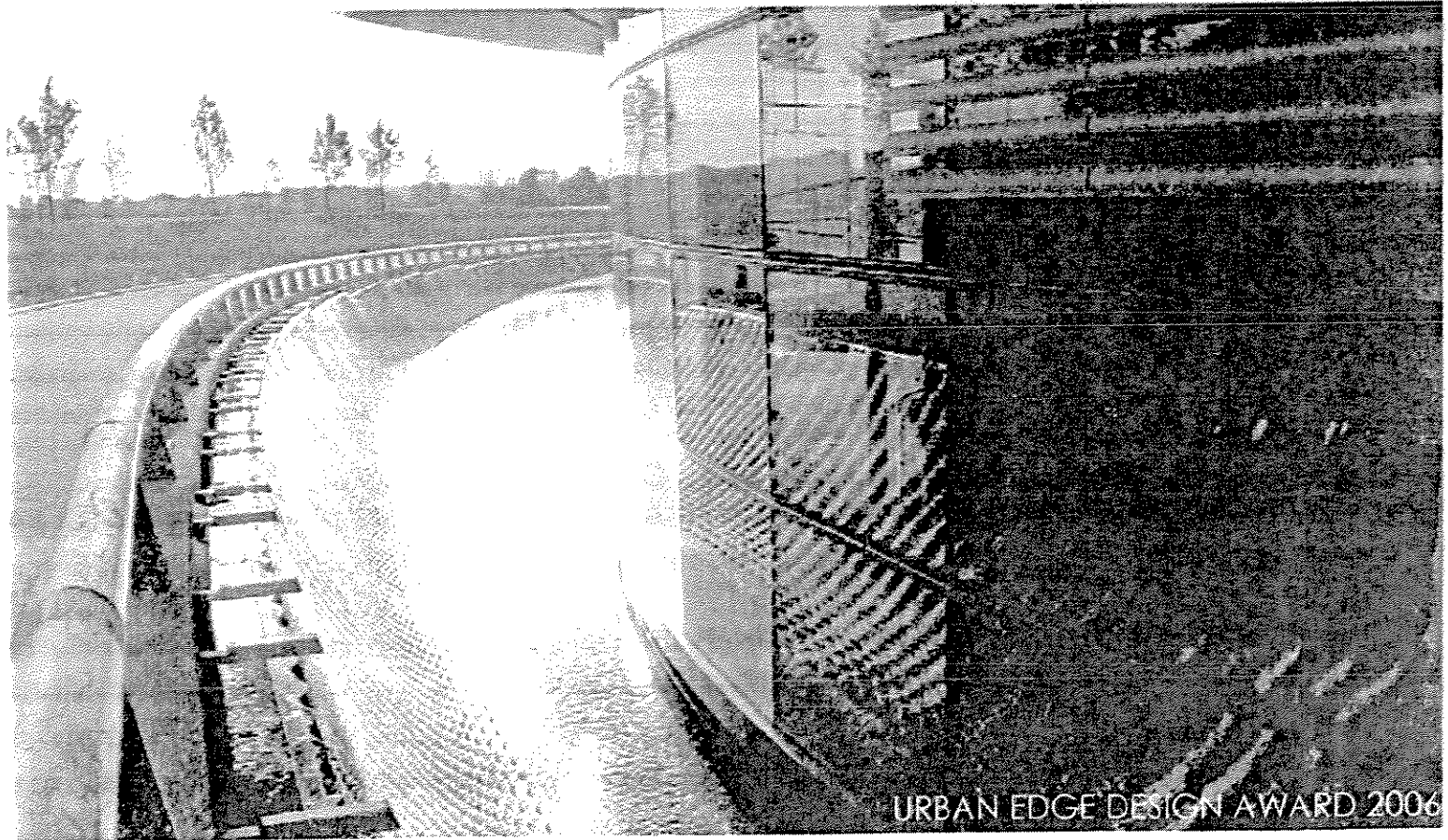
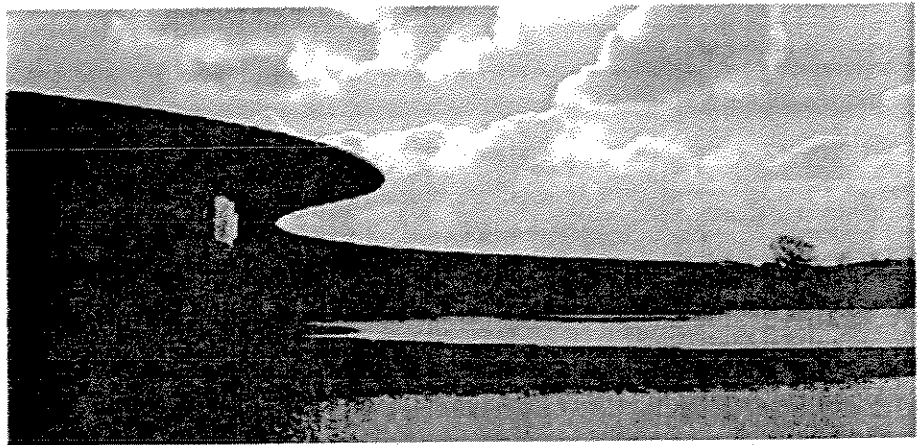
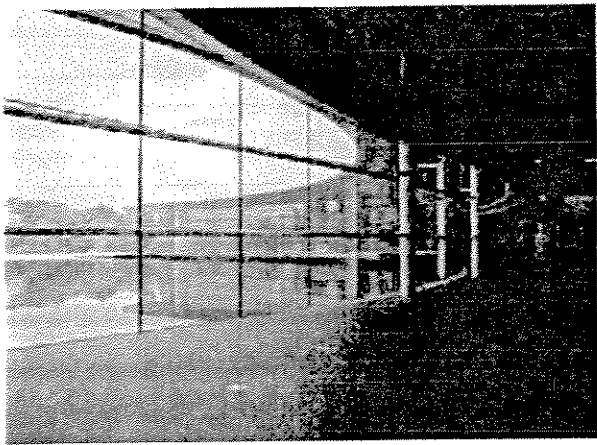
'PARAGON' McLAREN TECHNOLOGY CENTRE

LONDON, UK

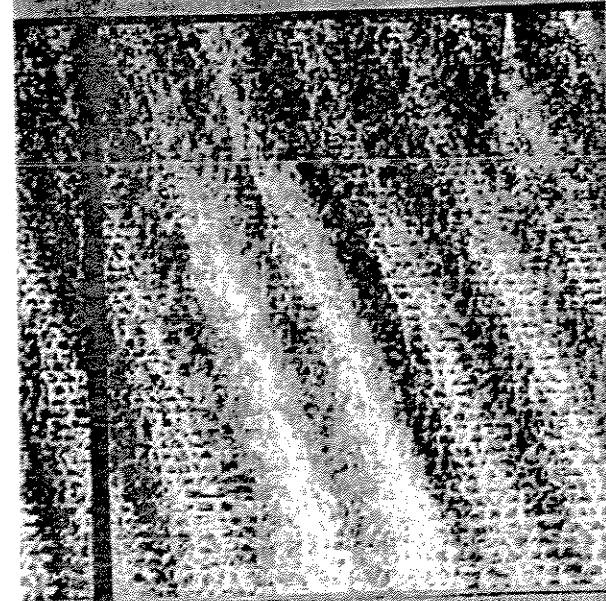
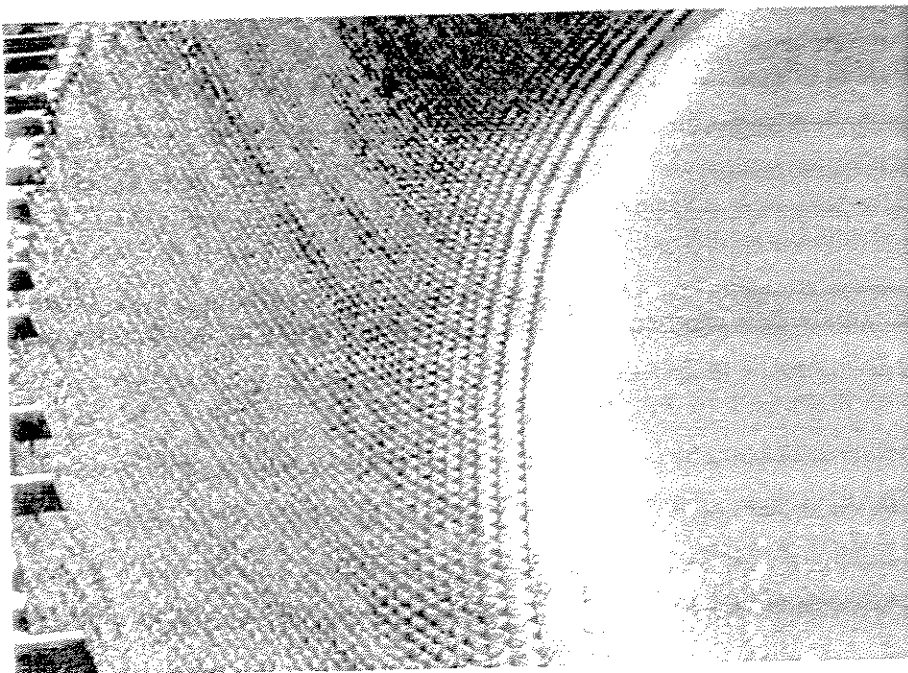
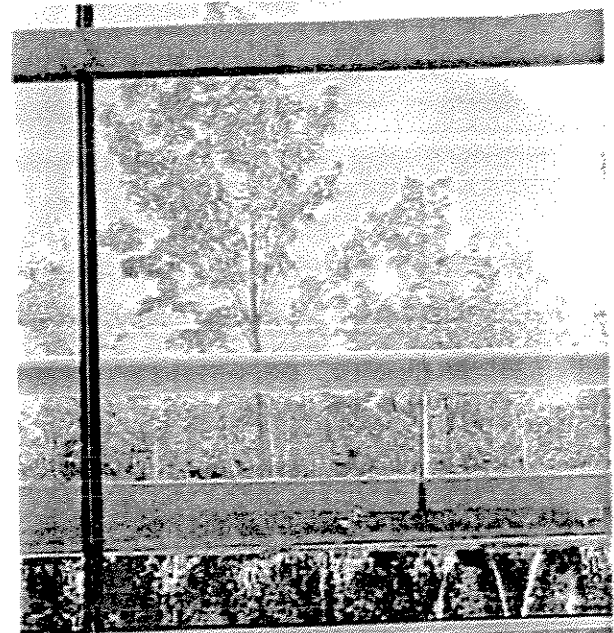
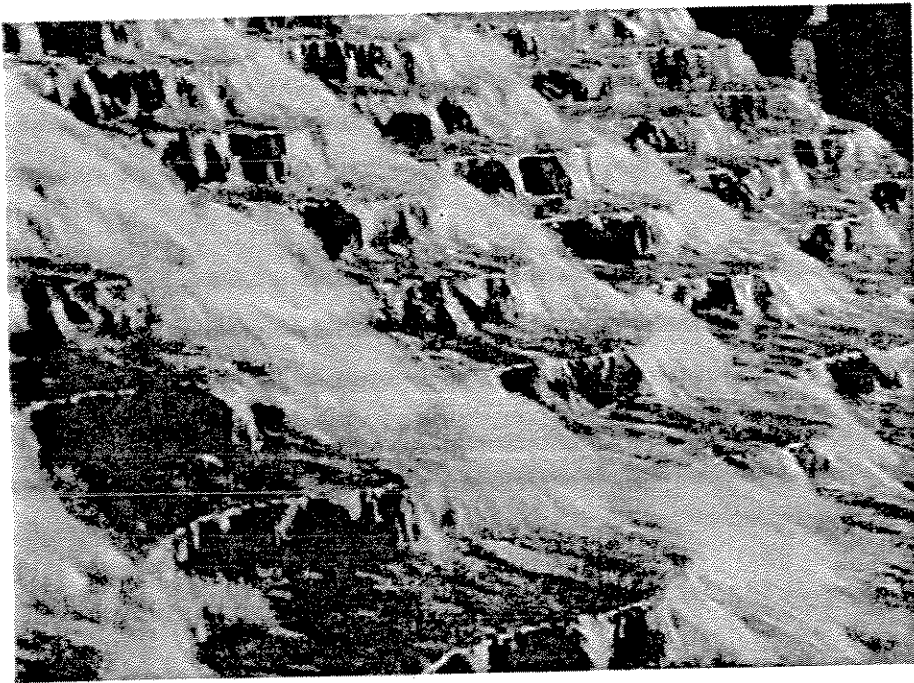


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'PARAGON' McLAREN TECHNOLOGY CENTRE LONDON, UK



'PARAGON' McLAREN TECHNOLOGY CENTRE LONDON, UK



URBAN EDGE DESIGN AWARD 2006

POTSDAMER PLATZ - URBAN WATERWAY - BERLIN, GERMANY

PROJECT PROFILE

Expectations of the completed Potsdamer Platz were immense, and the challenges on what was once Europe's largest building site were highly complicated. People were not just supposed to work here, they were supposed to spend their leisure time here as well.

A vibrant urban construct was to be created, which was certainly challenging in the shadow of towering company headquarters. And the intention of setting high ecological standards for the project had caught on as well. The suggestion that rainwater should be used for flushing toilets and watering green areas was met with interest. The same was true of the idea of using the rainwater that collected in the underground tanks to feed an artful water system that would include a narrow pool on the northern side, one in the piazza, the large main area of water and an additional southern water body. There, the water is cleaned biologically through planted purification biotopes and mechanically with technical filters, all without the use of chemicals. A complex computer simulation was used to predict that the Landwehr Canal would only be compelled to absorb heavily increased amounts of precipitation three times in ten years; this is based on the approximate drainage figures for an unsealed plot. The main area of water measures approx. 1.3 hectares and can still offer with a fluctuating water level a reserve of 15 centimeters between the normal and the maximum water level. The waterfront consists of 1.7 kilometers partially hard edged and soft edged shoreline in an extremely urban surrounding.

PROJECT DATA

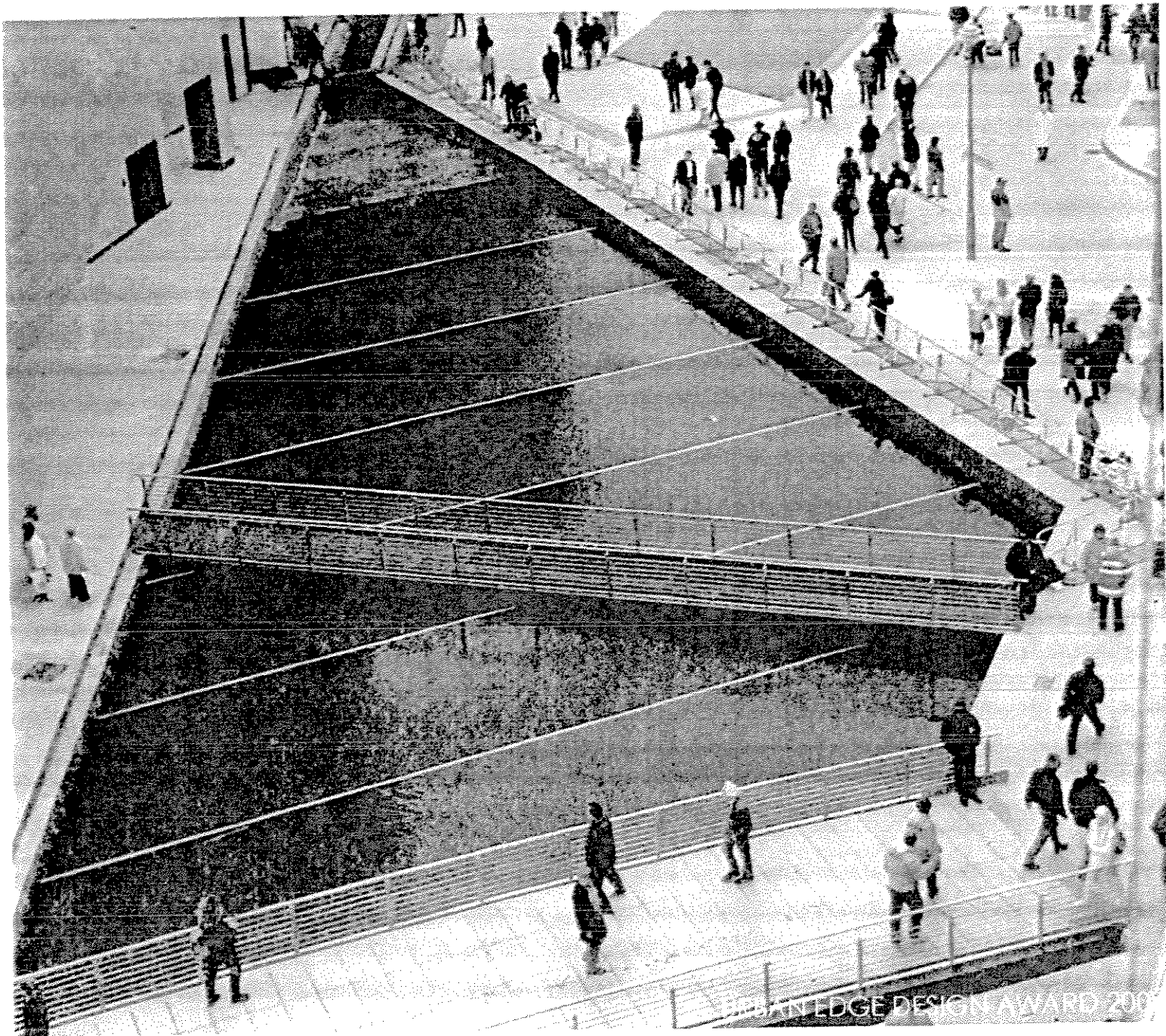
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|----------------------------|---------------------------------|
| Client | Stadt Berlin / Debis Immobilien |
| Planning and design | 1994-1998 |
| Construction | 1997-1998 |
| Water surface | ca 12.000 m ² |
| Total volume | ca 12.000 m ³ |
| Circulation volume | 500 m ³ /h |
| Water exchange rate | 3 Days |
| Minimum water depth | 30 cm |
| Maximum water depth | 185 cm |
| Water storage | 300 m ³ |
| Water cleansing | Cleansing Biotope |



POTSDAMER PLATZ - URBAN WATERWAY - BERLIN, GERMANY

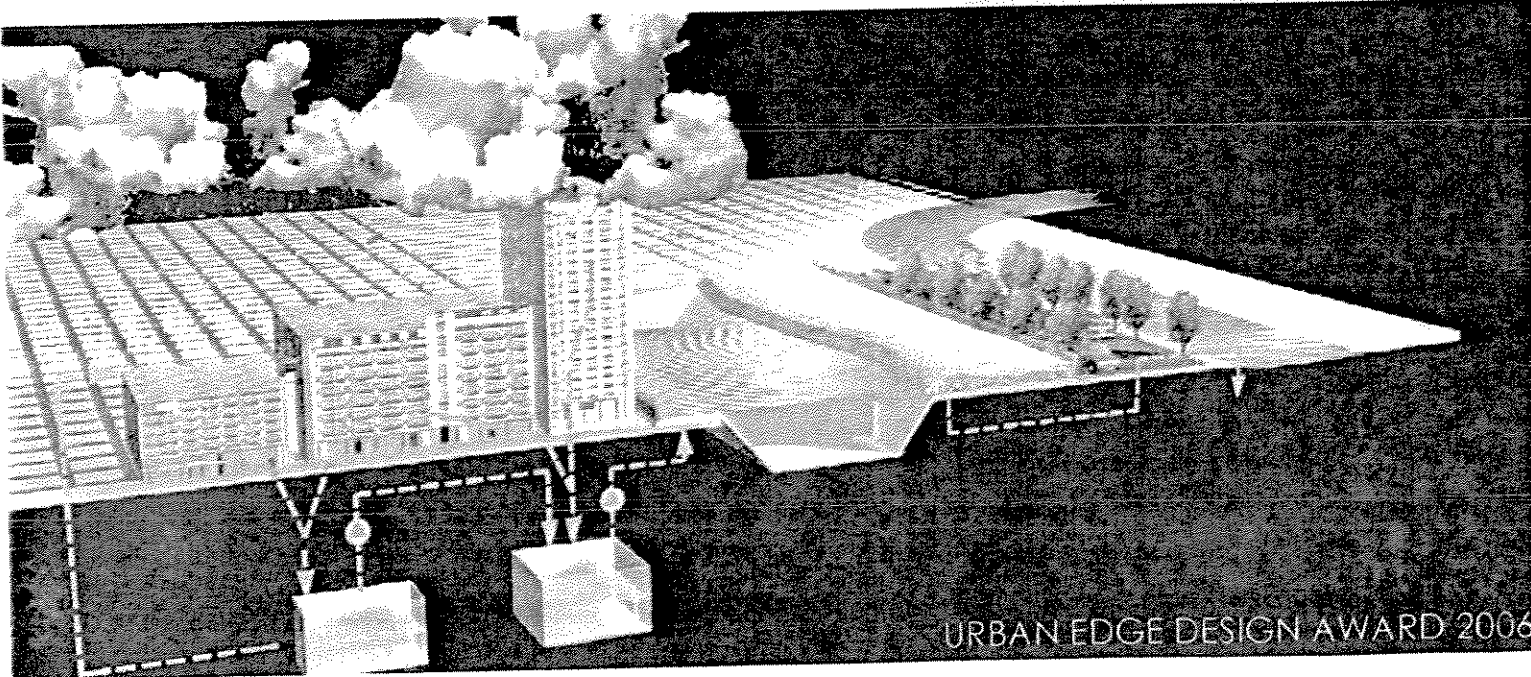
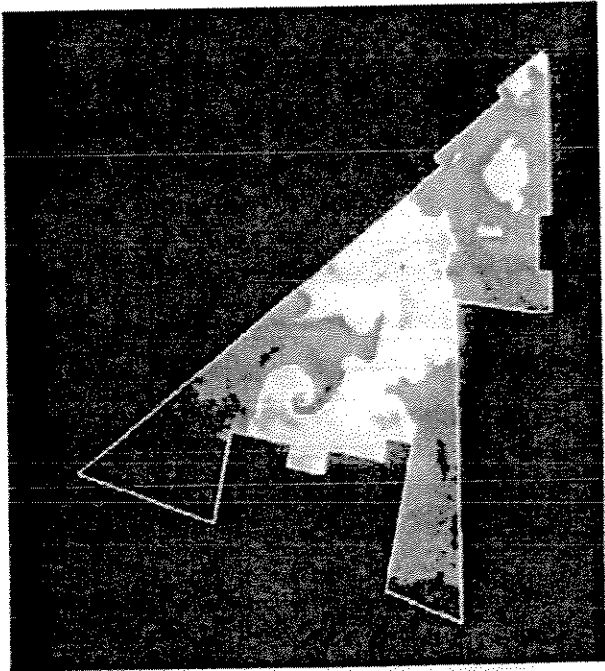
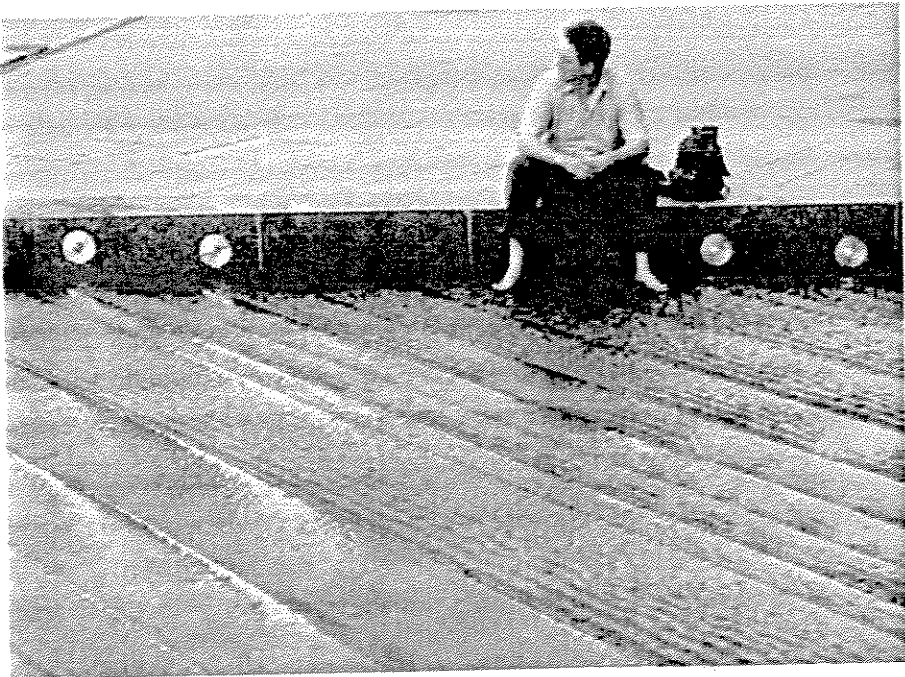
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POTSDAMER PLATZ - URBAN WATERWAY - BERLIN, GERMANY



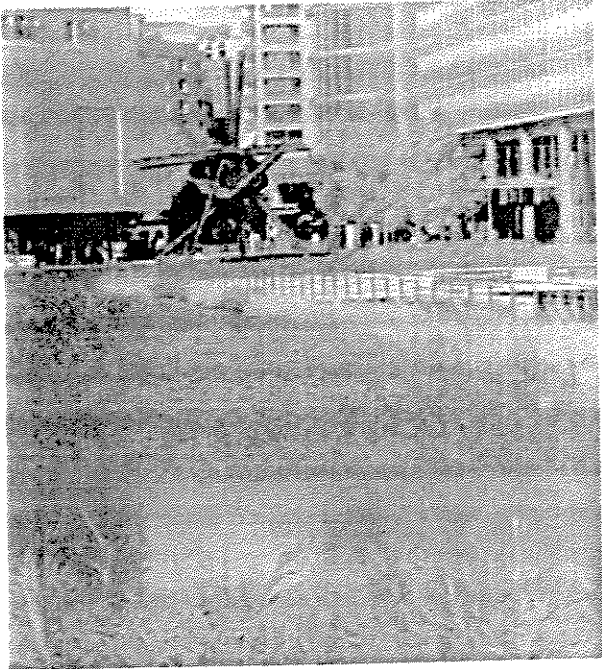
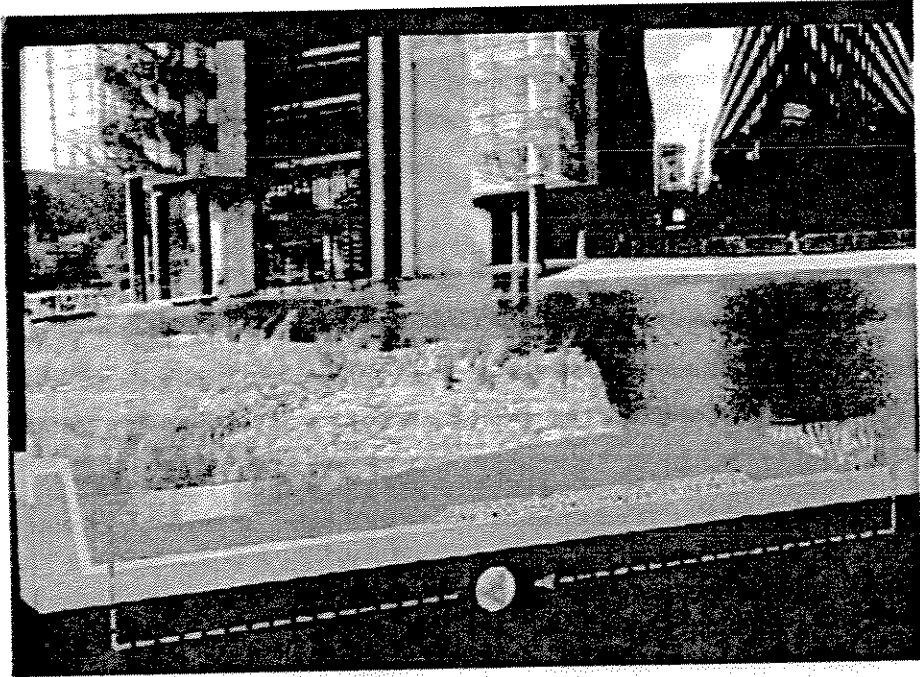
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POTSDAMER PLATZ - URBAN WATERWAY - BERLIN, GERMANY



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URBAN EDGE DESIGN AWARD 2006

POTSDAMER PLATZ - URBAN WATERWAY - BERLIN, GERMANY



TANNER SPRINGS PARK - PORTLAND, OREGON, USA

PROJECT PROFILE

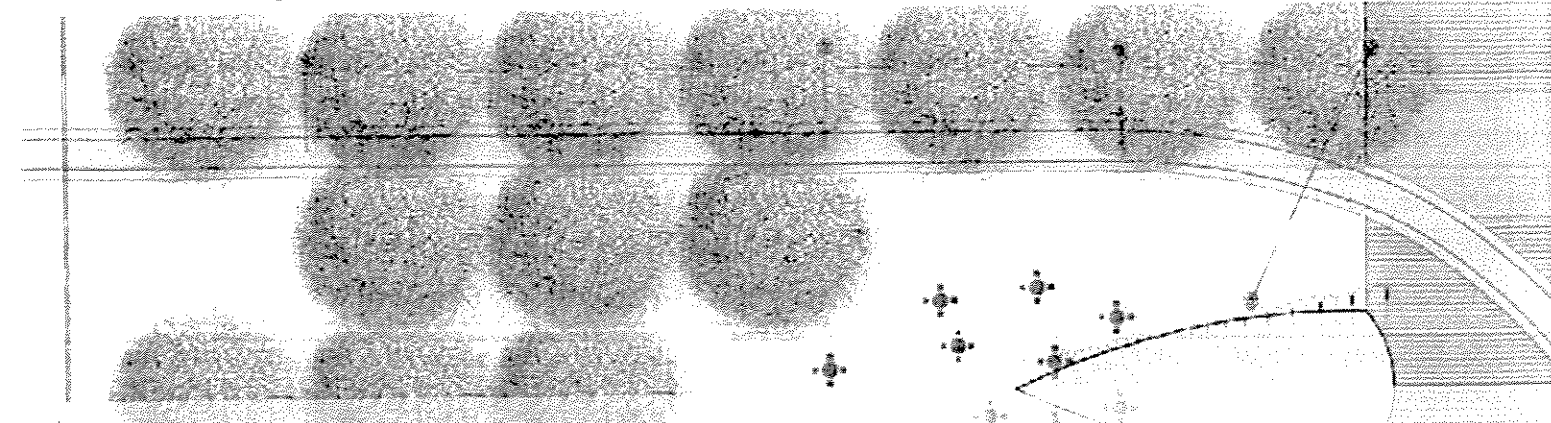
Formerly a wetland, the Pearl District was bisected by Tanner Creek and sided by the broad Willamette River. Rail yards and industry first claimed and drained the land. Over the past 30 years, a new neighborhood has progressively established itself – young, mixed, urban and dynamic, today the Pearl District is home to families and businesses. As the district expands into the last of the rail yards, the City of Portland engaged the design team to produce a new park to bring green space into this previously industrial area.

With surgical artistry, the urban skin of one downtown block, 80 x 80 meters (200 by 200 feet) is peeled back. Given its natural inspiration, the park was envisioned as a model of urban sustainable design. All stormwater runoff from the park block is directed into the cleansing biotope, rather than out to the curb and gutters of surrounding streets. This water is collected in a main water body along one side of the park. Symbolic of the old city fabric, historic railroad tracks form a wave-wall on its border. The 'Art Wall' produces harmonious contrast between the static strength of the rail tracks and the lithe and flowing movement of the wall, as it oscillates in and out and the top also rises and falls. It is 60 meters long and composed of 368 rails with 99 pieces of fused glass inset with hand-painted images of nature.

From the inclusion of public art and the cleansing of urban runoff, to creating a place where Red-winged Blackbirds, Great Blue Herons, and local residents alike might find respite from the stresses of contemporary urban life, Tanner Springs Park shows that it is possible to find nature in the city.

PROJECT DATA

| | |
|----------------------------|---|
| Client | City of Portland, Oregon (USA) |
| Planning and design | 2002-2004 |
| Construction | 2004-2005 |
| Size | Approx. 51,700 ft ² (4,800 m ²) |
| Circulation rate | 50 gpm (= 3 l/s) |
| Water treatment | Cleansing biotope 4,780 ft ² (444 m ²) |
| Length of Art wall | 165 ft (=50 m) |
| Steel Rails | 360 Stk. |
| Water surface | 5,600 ft (=520 m ²) |
| Total water volume | 8,400 ft ³ (=238 m ³) |



TANNER SPRINGS PARK - PORTLAND, OREGON, USA

The image shows a detailed architectural site plan for Tanner Springs Park. The plan features a central area with a complex, organic shape, possibly representing a pond or a specific landscape feature. This central area is surrounded by various zones, including what appears to be a parking lot or paved area on the right side, and several clusters of trees or vegetation. The drawing uses fine lines and shading to represent different materials, textures, and landscape elements. The overall layout is rectangular, with a curved boundary on the right side.

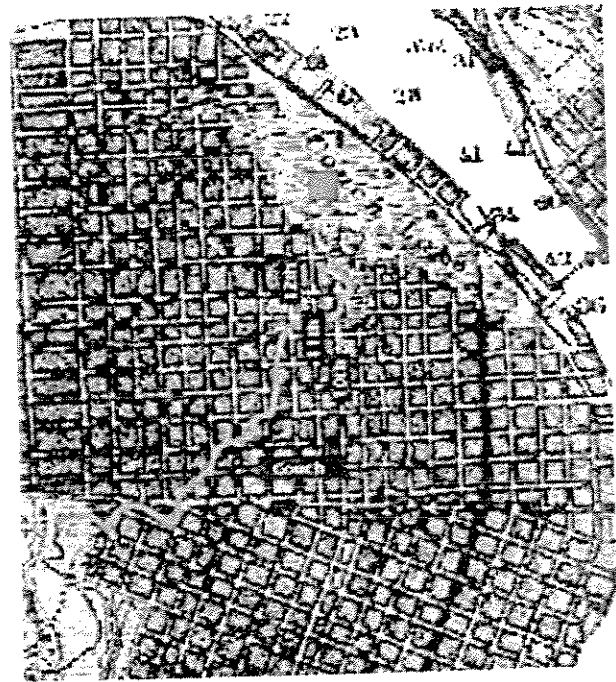
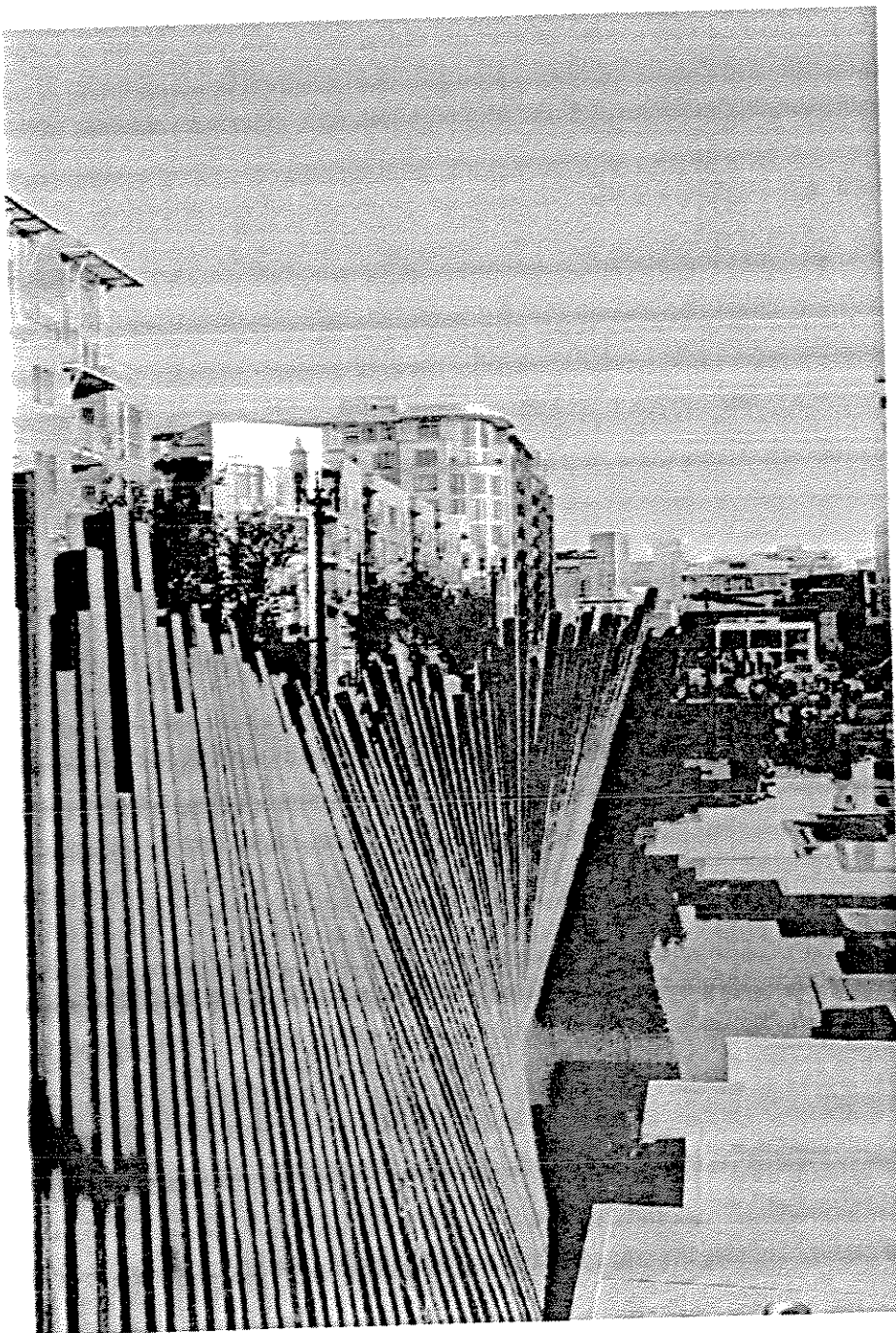


TANNER SPRINGS PARK - PORTLAND, OREGON, USA



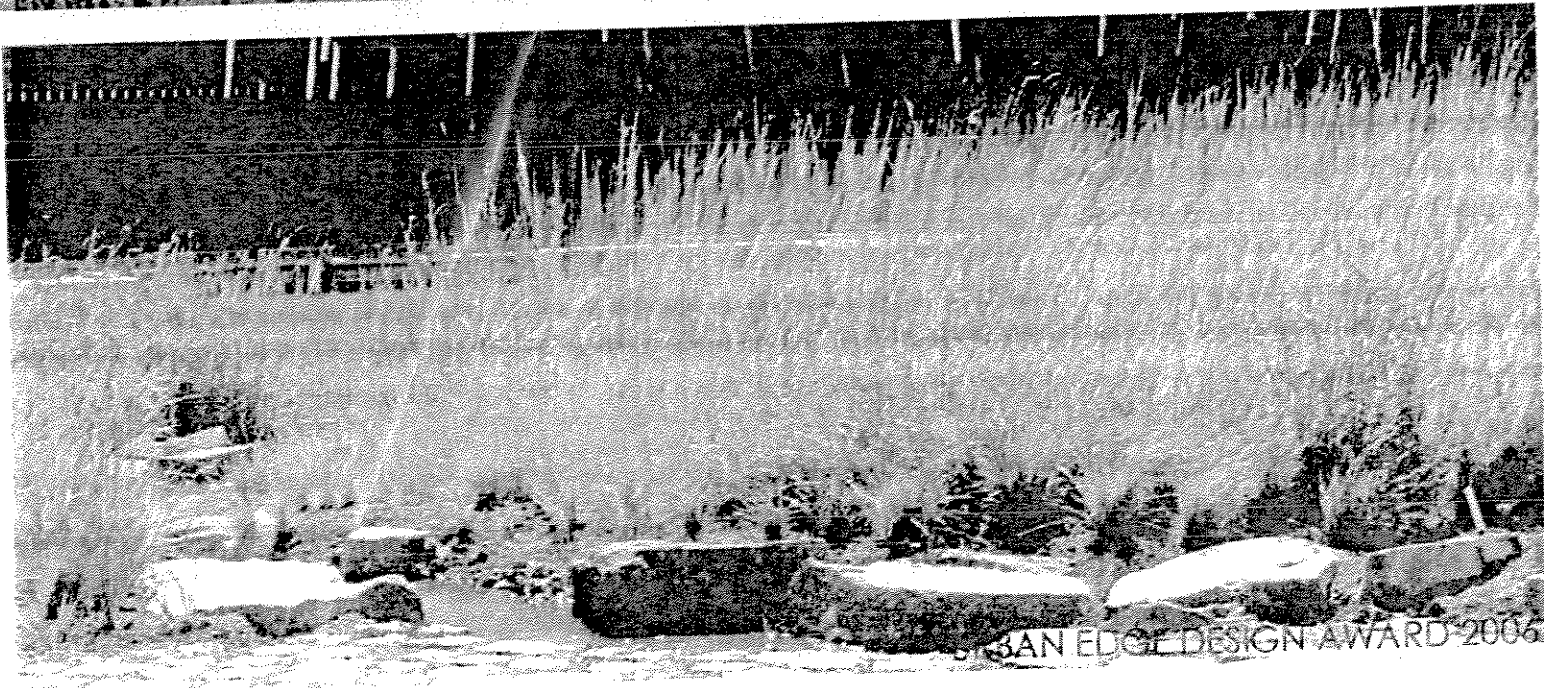
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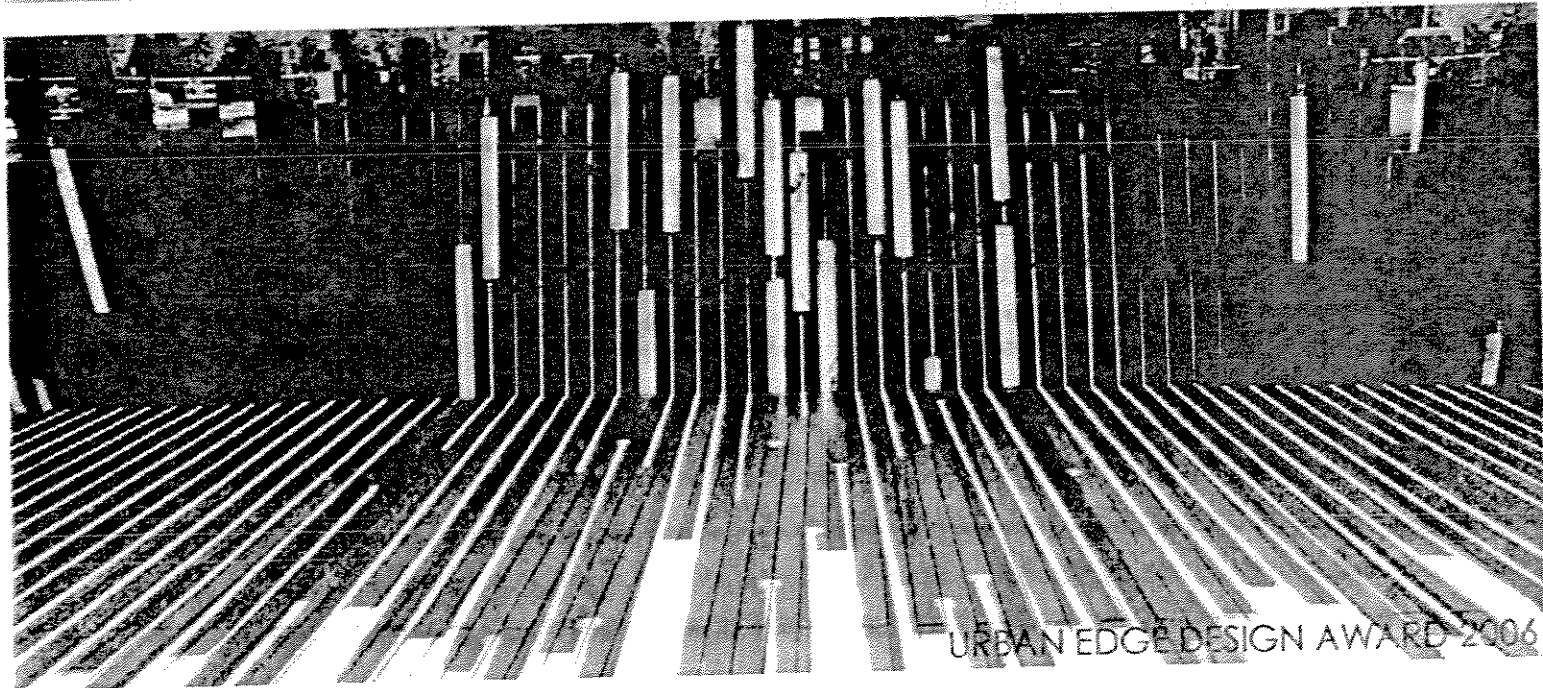
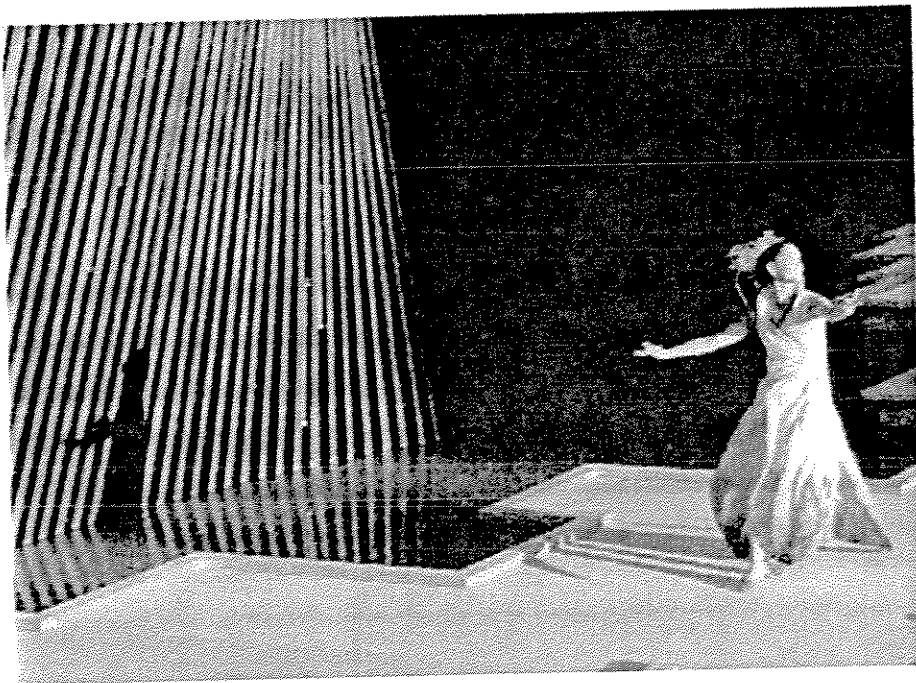


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TANNER SPRINGS PARK - PORTLAND, OREGON, USA



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