

The Aga Khan Award for Architecture

1998 ARCHITECT'S RECORD

1322.SAU

I. IDENTIFICATION

Project Title King Fahd Expressway Landscaping
 Street Address King Fahd Road
 City Ar Riyadh Postal Code Country Kingdom of Saudi Arabia

II. PERSONS RESPONSIBLE

A. Architect/Planner Landscape Architects: BW&P, Bödeker.Wagenfeld & Partner
 Name former: BBW&P Bödeker.Boyer.Wagenfeld&Partner GmbH
 Mailing Address Bergische Landstrasse 606
 City Düsseldorf Postal Code 40629 Country Germany
 Telephone 49-211-29 10 60 Facsimile 49-211-2 91 06 20 e-mail: bwp-duesseldorf@t-online.de

B. Client

Name ADA Arriyadh Development Authority
 Mailing Address Post Office Box 94501
 City ArRiydh Postal Code 11614 Country Kingdom of Saudi Arabia
 Telephone 966-1-4883331 Facsimile 966-1-488 21 47 Telex

C. Project Affiliates

Please list those involved in the project and indicate their rôles and areas of responsibility (e.g. engineers, contractors, economists, master craftsmen, other architects, clients, etc.).

Name	Rôle
<u>Richard Bödeker</u>	<u>Senior Landscape Architect</u>
<u>Horst Wagenfeld</u>	<u>Senior Landscape Architect</u>
<u>Hein van der Plas</u>	<u>Landscape Architect</u>
<u>Gunhild Brandhoff</u>	<u>Landscape Architect</u>
<u>Michael Dane</u>	<u>Landscape Architect</u>
<u>Joachim Müller</u>	<u>Landscape Supervisor</u>
<u>Olaf Bux</u>	<u>Landscape Supervisor</u>

Appendix

Continued:
II.C Project Affiliates

Construction:

General Contractor: Dumez, Saudi Arabia / France
Construction company

Street Engineering:

RRI Rhein-Ruhr Ingenieur GmbH
Burgwall 5
44135 Dortmund
Germany

III. ARCHITECT'S BRIEF

Please describe the initial project programme.

The King Fahd Road is an urban expressway in the center of ArRiyadh. Before construction of the new road it had divided the city center into two halves for years. The goal of the design concept was to transform this stretch of road into a green corridor, linking the city parts with each other. Instead of being an area hostile to pedestrians, the road landscaping was to supply not only visual screening and micro-climatic improvement, but also small green spaces for urban recreation. The neighbourhoods and commercial activities on both sides of the road were to be connected by pedestrian bridges. Road intersections were to be planted with trees and shrubs following the walkways. Adjacent neighbourhoods were to be incorporated by landscaping stretching up to the houses and in plazas.

IV. EVOLUTION OF DESIGN CONCEPTS

Please describe the history of the project, from its conception to its final construction and actual use.

How to transform the 5.1 kilometre stretch of road into a green corridor which connects instead of separating was often a topic of discussion between the team of landscape architects of BBW&P working on the Diplomatic Quarter project and Dr. Mohammed Al Shaikh, former President of the ADA-ArRiyadh Development Authority. The discussion finally gave way to the design for a new road which was to replace an existing design. While providing easy access to the city center and allowing for adequate traffic flow, the road includes a buffer zone to adjacent neighbourhoods made up by tree, shrub and groundcover planting. Pocket parks in the neighbourhoods were created as green fingers reaching out from the street.

V. CONSTRUCTION DETAILS

A. Description of Materials

(please also indicate if locally produced or imported and whether fabricated on-site or elsewhere)

1. Foundations

Foundations and structural elements have been coordinated with the needs of landscaping and plants (see also Detail of Tree Pits).

2. Principal Structural Members

3. Infill

4. Rendering of Façades or Exterior Finishes

5. Floors

6. Ceilings

7. Roofing

8. Other elements (please specify)

Other elements are pergolas, shaded walkways, playgrounds, pavillions and water features (see photographs).

B. Construction Technology

Indicate the basic construction technology, methods, details or systems.

The vegetation technology applied includes automatic drip irrigatin systems and a special soil mix. Plant material was supplied by the Diplomatic Quarter Nursery.

C. Type of Labour Force (please indicate percentage) _____ Skilled Workers _____ Unskilled Workers

D. Origin of Labour Force _____ Domestic _____ Foreign

VI. TIMETABLE

(please specify year and month)

- A. Commission 7 / 85
- B. Design: Commencement 7 / 85 Completion 12 / 85
- C. Construction: Commencement 5 / 87 Completion 12 / 90
- D. Date of Project Occupancy 1991

VII. AREAS AND SURFACES

Site and Building Area (please indicate in square metres)

1. Total Site Area Length of road section 5.1 km, site area 46 ha
2. Total Ground Floor Area intensive planting area 200,000. m²
3. Total Combined Floor Area -----
(including basement(s), ground floor(s) and all upper floors)

VIII. ECONOMICS

Please specify the amounts in local currency. Provide the equivalent in US dollars. Specify the date and the rate of exchange for US dollars at that time.

	Amount in Local Currency	Amount in US dollars	Exchange Rate	Date
A. Total Initial Budget	_____	_____	_____	_____
B. Cost of Land	_____	_____	_____	_____
C. Analysis of Actual Costs				
1. Infrastructure	_____	_____	_____	_____
2. Labour	_____	_____	_____	_____
3. Materials	_____	_____	_____	_____
4. Landscaping	_____	_____	_____	_____
5. Professional Fees	_____	_____	_____	_____
6. Other	_____	_____	_____	_____
D. Total Actual Costs (without land)	<u>389,000,000 SR</u>	<u>103,733,333 US\$</u>	<u>1 US\$ = 3.75 SR</u>	<u>(fixed)</u>
E. Actual Cost per sq.m.	<u>845.7 SR</u>	<u>US\$ 225.5</u>	_____	_____
F. Cost Comparison				

Please indicate how the costs of this project relate to typical building costs in the country:

_____ Average _____ Above Average _____ Below Average

G. Sources of Funds

1. Please indicate the percentage of funds that came from:

_____ Private Sources 100% _____ Public Sources

2. If funding was public, what percentage was from:

_____ Local Sources _____ National Sources _____ International Sources

IX. PROJECT SIGNIFICANCE AND IMPACT

In what way is this project important ?

..... More than just a road

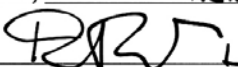
The King Fahd Road has become a green corridor which connects the parts of the city instead of seperating them. It is the green heart of Arriyadh and by far the largest green area in the city.

Pocket parks which border directly on the roadside planting were created in the neighbouring residential area some of which form part of the historic town of Arriyadh. In this way the road itself has been completely **integrated** within the urban fabric. Parks and green areas have been created on top of the underpasses, they effectively link both parts of the city centre and are well-used by residents.

In the evening the green areas are heavily frequented by the local population.

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Name (please print) RICHARD BÖDEKER

Signature  Date 2.12.1997