

Ayunose Bridge



Architectural Outline

The Ayunose Bridge is built over a dynamic 140-meter deep gorge that cuts into the southern base of Mt. Aso. The aim of the design was to make use of this landscape and to create "a landscape with a bridge". One side of the gorge is open, but on the other side the mountain rises precipitously, although there is a ledge midway up the side. An asymmetrical combination of forms - a cable-stayed bridge and a V-shaped bridge support - was used in response to this topography. The tower was built on the open side, and the V-shaped support was erected on the ledge. The concrete texture of the bridge is in harmony with the exposed rock surface of the cliff. The tension expressed by the cable-stayed bridge was emphasized in response to the rugged, precipitous character of the mountainside. The metallic orange cables, seen against a green backdrop, change in appearance from moment to moment. At Ayunose Bridge, allowing people to view the landscape of the valley from the bridge or a plaza created at the foot of the bridge was as important a consideration as facilitating their crossing.



Architectural Data

Name	Ayunose Bridge
Location	Yabe-machi, Kamimashiki-gun
Main function	bridge
Developer	Kumamoto Prefecture
Architects	M+M Design (Miyoko Ono) Chuo Gijutsu Consultants
General contractors	joint venture of Sumitomo Construction and Sato Corporation
Length	390 meters
Effective width	8 meters
Height of tower	138 meters
Structure	three span cable-stayed prestressed concrete bridge and rigid-frame bridge
Construction period	December 1993 - June 1999
Total construction cost	5,420 million



Miyoko Ono

- 1963 Graduated from Department of Design, Tama Art University
1966 Entered Otto Glaus Architects, Switzerland
1971 Established M + M Design

●Principal Works

Katsushika Harp Bridge; Tsurumi Bridge, Hiroshima City; Odawara Blueway Bridge, Odawara; Meiko Chuo Bridge, Nagoya City; Bay Walk Shioiri Pedestrian Bridge; Shinjiko Bridge, Matsue City

●Awards

- 1985 Japan Interior Designers' Association Award
1997, '86, '89, '94, '95, '97, '98, 2001
Japan Society of Civil Engineers Tanaka Award
1998 Fip Award for Outstanding Structures (Odawara Blueway Bridge)
2002 Japan Society of Civil Engineers Landscape & Design Award (Ayunose Bridge)

Photo : Masatsugu Miyai