

THAILAND **ARCHITECTURE IN STEEL**







THAI PUBLIC BROADCASTING SERVICE (THAI PBS) HEAD OFFICE

PLAN ASSOCIATES

The Thai PBS Head Office is built for the purpose of providing public broadcasting services. Besides being a standard modern television station, it also aims to become an institution helping to improve society and provide opportunities for public participation in the presentation of TV programs. Therefore, the design concept takes several aspects of the program into consideration, whether those are the emergence of Thai PBS as a modern TV station, its desire to become a more public media, or its societal aspirations.

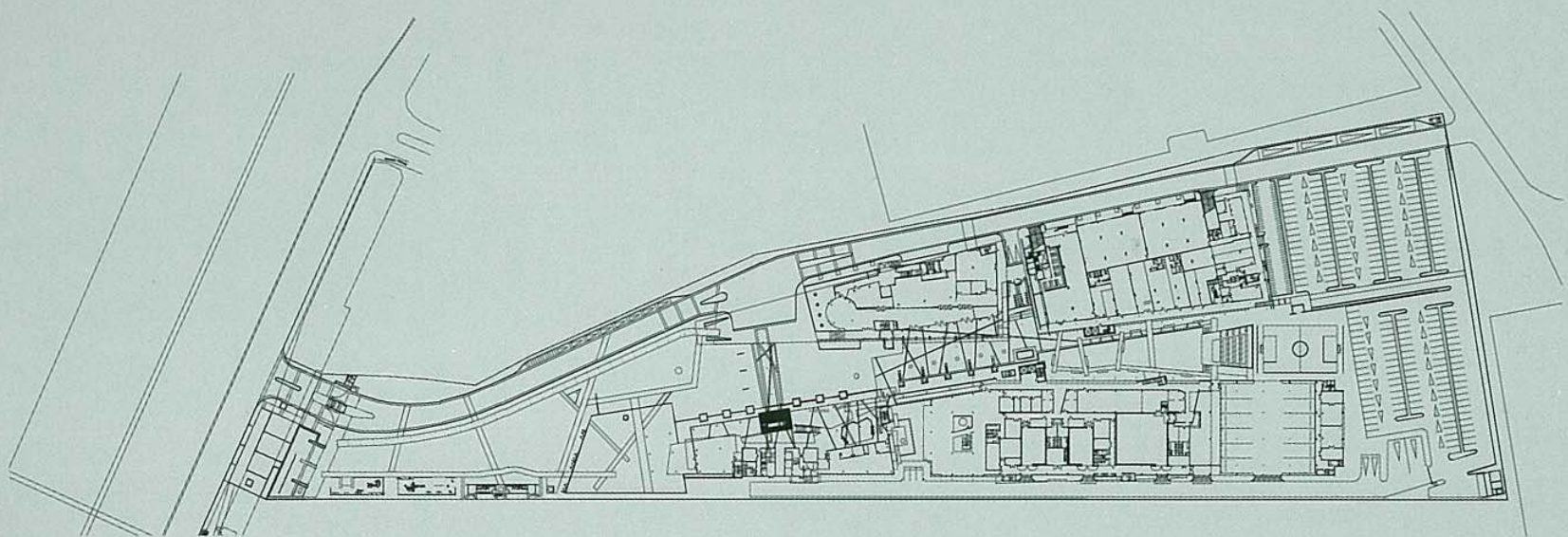
The emergence of Thai PBS as a modern TV station is reflected in the industrial look of the design; bare concrete, structural steel, aluminum and glass, and exposed mechanical systems. The desire to become a more public media is reflected in the organizational chart, which is set in such a way as to allow the public access to the company; open space is provided for interaction with the public, while the building's transparent walls allow people outside to see those working inside. The societal aspirations are reflected in the use of the 'office in a garden' concept, an open green area between buildings, and the use of eco-friendly materials. Moreover, a learning center is open to the public for research about mass media and other things.

The whole project is grouped into four separate buildings: Building A houses the four-story main office; building B contains three studios, an area for the news office, the production department, and the broadcasting equipment set-up room; building C serves as the car park and main powerhouse; and building D is used as a learning center with a People's library, convention hall, museum and media institutions.

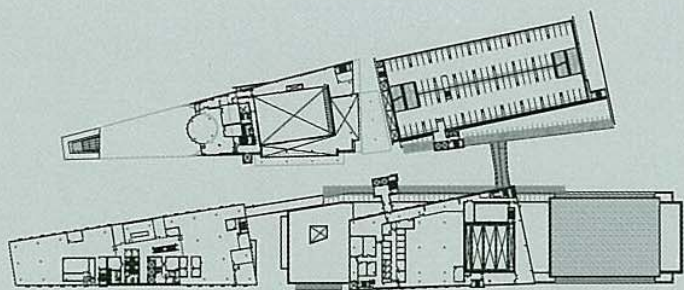
The main structure of building A is based on construction engineering architecture with its post-tension system. A steel structure is used for the canopy, walkway and staircase, and for the aluminum frame supporting the roof. The main frame of building B is also based on construction engineering architecture, and uses steel to frame the roof of the studio and OB parking area (with its span of 35 m), and to construct the walkway and staircase. The main structure of building C is based on construction engineering architecture and has a steel bridge, connecting building B and building C, that is designed in the form of a truss with a spanning length of 24 m. In building D, steel is used for the roof frame covering the drop-off area, which spans 40 m and supports a skylight. The roof frame of the convention hall, with its span of 20 m, and the frame of the roof covering the exterior staircase and leading up to the convention hall, are both also of steel.

In designing the steel frames, besides structural considerations, attention was given to appropriate pattern and proportion so as to match the overall architectural design. These, and the careful design of the different connection details that lend beauty to the work, were important factors representing the architectural design concept for this project.

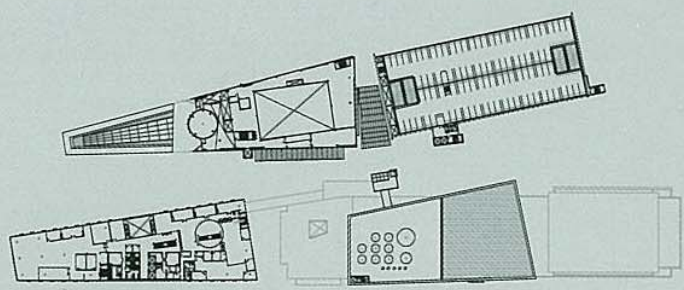
Location Viphavadi Rangsit Road, Bangkok	Client Thai Public Broadcasting Service (Thai PBS)	Structural Engineer Arun Chaiseri Consulting Engineers	Area 40,000 sq. m. Year 2011
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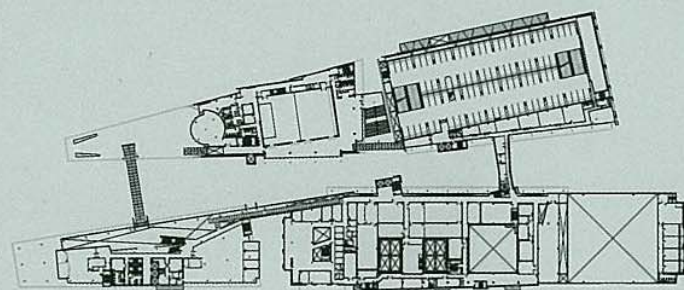
Layout



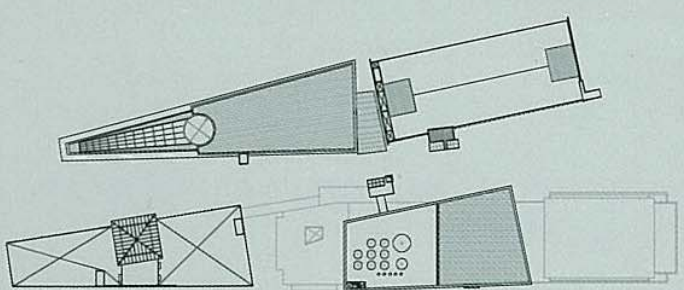
Second Floor Plan



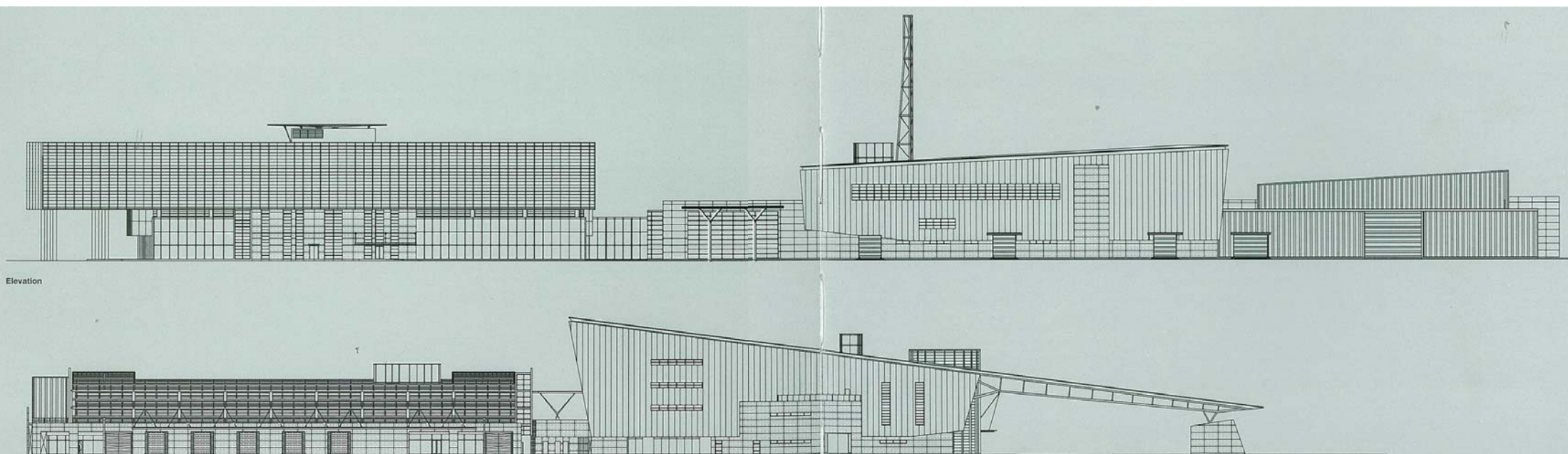
Fourth Floor Plan



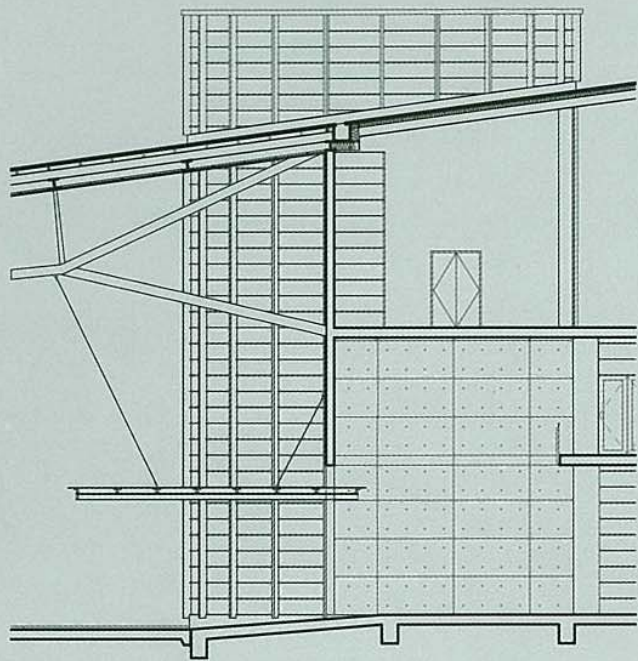
Third Floor Plan



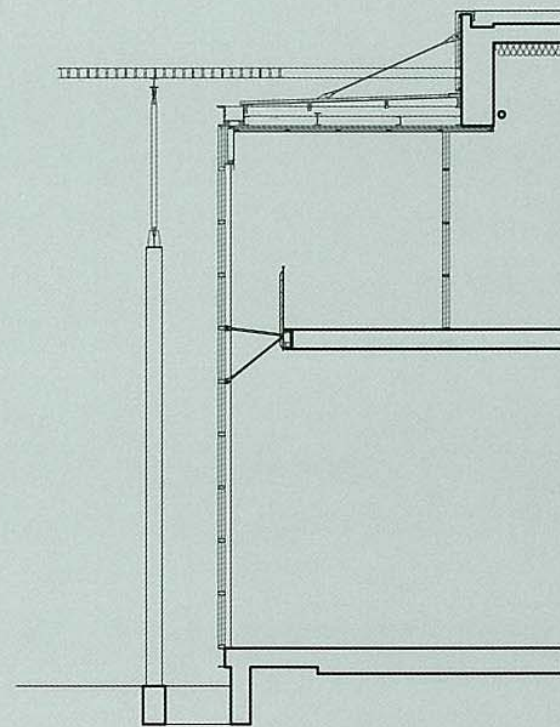
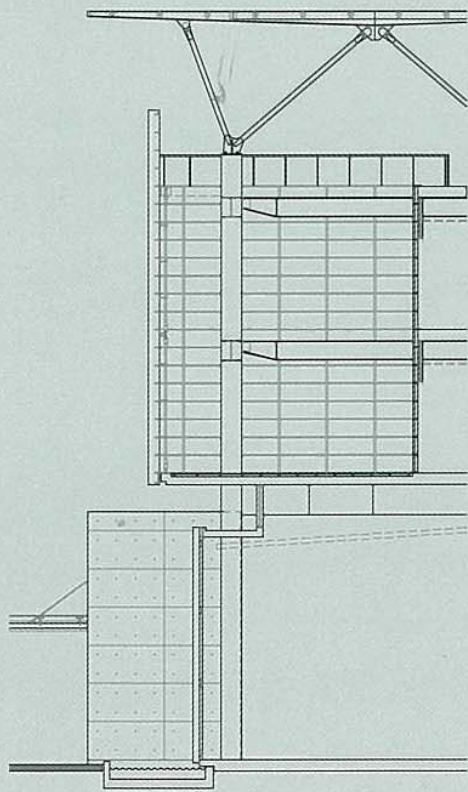
Roof Floor Plan



Elevation



Wall Section





1	2	3
	4	5

- 1 Dynamic expression through stair direction and corporate color code
- 2 Details of the suspended steel structure of the corridor
- 3 Natural light and greenery through the glass façade of Buildings A and B
- 4 Vibrant color of the main stair
- 5 Details of the entrance hall

