



Site/Infrastructure Planning

Master Planning

Client

Taiwan Semiconductor
Manufacturing Company

Location

Tainan, Taiwan



Aerial Perspective

TSMC Master Planning

Project Description

When Taiwan Semiconductor Manufacturing Company (TSMC) out grew their existing facility in Taiwan, they consulted with IDC Architects, an affiliate of CH2M HILL, to master plan and design their new 250 acre campus at the Tainan Science-Based Industrial Park.

The site plan is configured to support the unique architectural image sought by TSMC. The corporate headquarters and main visitor entrance are given prominence at the center of the site. A four-story opening through the middle of the headquarters creates a symbolic gateway allowing the positive energy - or chi - to be funneled through the building, enhancing corporate prosperity.

The 7,104,000 SF building program is organized into clear functional zones that wrap around the site in an L shape. Offices address the main roads and reinforce the urban edge, manufacturing buildings are grouped to share common support functions, and to facilitate inter-building circulation. Utility buildings and warehouses are located centrally and are screened from the public behind the larger fabrication buildings.

The administrative offices are typically set apart from the fabrication buildings, creating outdoor dining courtyards and increasing day lighting into the offices. Employee parking is located underground to conserve land and maximize the area available for tropical landscaping and water retention ponds.

Program Elements:

- Seven Corporate Office Buildings
- Six Fabrication Facilities
- Central Utility Buildings
- Warehouse
- Parking Garage
- Dormitory
- Bulk Gas Yard