



Spectra Secondary School

ECAS was the C&S consultant for a specialised school in Woodlands, and was leading a team of appointed consultants. The result was a fully operational 20,000m² specialised school with indoor sports hall, outdoor soccer pitch, technical rooms, and mechanical and electrical laboratories. Precast beams and hollow core slabs were used at the classroom and workshop blocks. For the multi-purpose hall, composite structure using steel beams and in-situ concrete slabs were adopted for the 27 meter span of the floor.

The school design was the recipient of the BCA Green Mark Platinum Award 2013 and the BCA Construction Excellence Award (Gold) 2015.

Client: Ministry of Education
Project Value: S\$35M
ECAS' Role: Consulting Services
Completion Date: 2013



West Coast Community Centre



The project consists of the erection of a new 3-storey community centre and the addition and alteration to the existing 3-storey community centre. The project also includes the Pedestrian Link Bridge connecting West Coast Community Centre and West Coast Plaza.

The structural system adopted is the conventional RC beam and slab system, and flat slab was adopted for the 1st storey. Post tensioned slab and beams are used at the 3rd storey and roof level. Bored and Micro piling was adopted for the foundation system.

Client: People's Association
Project Value: S\$10.6M
ECAS' Role: Consulting Services
Completion Date: 2016

Qifa Primary School



This project involves additions and alterations to the Qifa Primary School with the provision of 4-storey Indoor Sport Hall.

The structural system adopted is the conventional RC beam and slab system. Post Tensioned Beam and slab is also adopted for the ISH block to cater for the long span. Bored piles were used for the foundation.

The upgrading of the Qifa Primary School was part of a combined contract including East Spring Primary School and Yishun Primary School.

Client: Ministry of Education
Project Value: S\$26M
ECAS' Role: Consulting Services
Completion Date: 2014

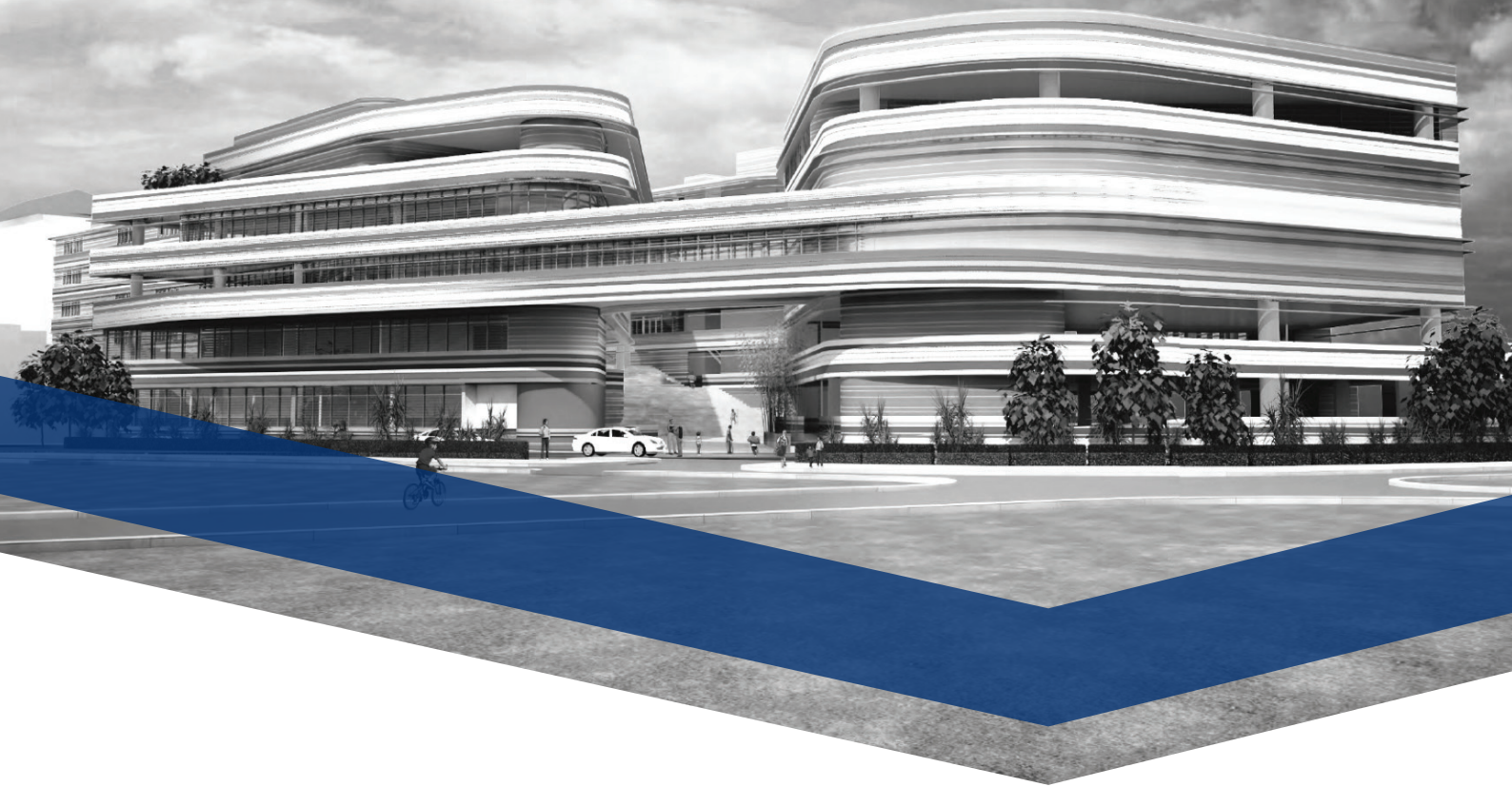
Kuo Chuan Presbyterian Primary School



The project comprises of 2-storey indoor sports hall (ISH) primary and secondary buildings, a 2-storey Chapel building and a 5-storey Main building.

The structural system of the project include cast-in-situ reinforced concrete beam and slab, cast-in-situ reinforced concrete column, hollow core slab system and PT beams. The floor for the ISH Secondary building consists of hollow core slab supported by PT Beam and the floor for the main building is hollow core slab with cast in situ beam. Steel roof truss/beam and metal roofing systems are proposed for the roof structure of ISH Primary, ISH Secondary and Main building. Cast in situ reinforced concrete roof slab system is proposed for Chapel Building. Bored Pile and Micro Pile was adopted for the foundation.

Client: Ministry of Education
Project Value: S\$28M
ECAS' Role: Consulting Services
Completion Date: 2014



Nanyang Primary School

Upgrading of the Nanyang Primary School to MOE's specifications. The upgrading includes a new indoor sports hall and related facilities while the school operates on-site. There was strong attention to achieve a buildable and economical design, and to shorten the construction period to reduce disruption to the operations of the school.

Client: Ministry of Education
Project Value: S\$29M
ECAS' Role: Consulting Services
Completion Date: 2014



Experimental Medicine Building, NTU



The project consists of one block of 7-storey school of medicine building with link ways at 3rd and 5th storey to the existing school of biological sciences at Nanyang Technological University.

Structural framework for the new building is mainly constructed with cast in-situ RC beams/slabs, PT beams / PT slabs and columns. The structure is founded on cast-in-situ reinforced concrete bored piles.

Client: LKC Medical
Project Value: S\$40M
ECAS' Role: Accredited Checking
Completion Date: 2015

Anglo-Chinese School (Independent)



The project was composed of a new 5-storey building for the International Baccalaureate campus and additions and alterations to existing school.

Structural elements that enabled fast construction such as precast beams, hollow core slabs and flat plates were used. The 3000 seat Auditorium and a 1500 seat Centre for Performing Arts was designed with long span structures in the form of steel trusses. Moreover, post-tensioned beams were used.

Client: Anglo Chinese School
Project Value: S\$50M
ECAS' Role: Consulting Services
Completion Date: 2007

Punggol Cove Primary School



The contract consisted of the erection of Punggol Cove Primary School comprising of one 6-storey and two 7-storey classroom blocks and one part 2/3-storey administrative building with indoor sport hall (multipurpose hall).

The structural system adopted for the project include cast-in-situ reinforced concrete beam and slab, cast-in-situ reinforced concrete column and PT beam. The floor for the indoor sports hall secondary building is hollow core slab supported by PT Beam and that for main building is hollow core slab with cast in situ beam. Steel roof truss/beam and metal roofing systems are adopted for the roof structure of ISH. Bored pile was adopted for the foundation.

Client: Ministry of Education
Project Value: S\$37.5M
ECAS' Role: Consulting Services
Completion Date: 2015