



Image Credit: MKPL Architects Pte Ltd

CERTIFICATE OF MERIT, ENGINEERING (DESIGN) TO-BE-BUILT BUILDING

# Heart of Yew Tee

## Project Overview

Heart of Yew Tee is located near Yew Tee MRT, bounded by Choa Chu Kang North 6, Choa Chu Kang Street 62 and Yew Tee Close. It comprises of 68 units of 2-room Flexi flats, hawker centre, polyclinic, kidney dialysis centre, and community club.

The implementation of key engineering innovations optimises this 0.66 hectare site, housing multiple amenities in this mixed development without causing disruptions to neighboring developments in close proximity.

## Project Achievements

- Relocation of the detention tank to basement level to reduce depth of excavation
- Enhanced pile cap design to reduce depth of excavation
- 16.2m long post-tensioned beams introduced to create column-free spaces
- Transfer slab to optimise floor space efficiency



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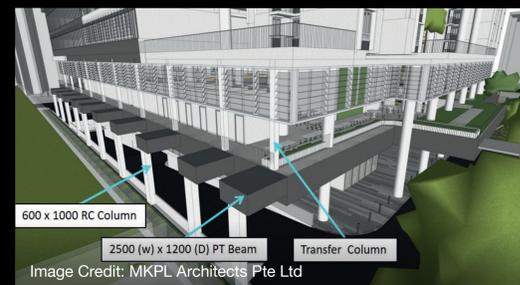


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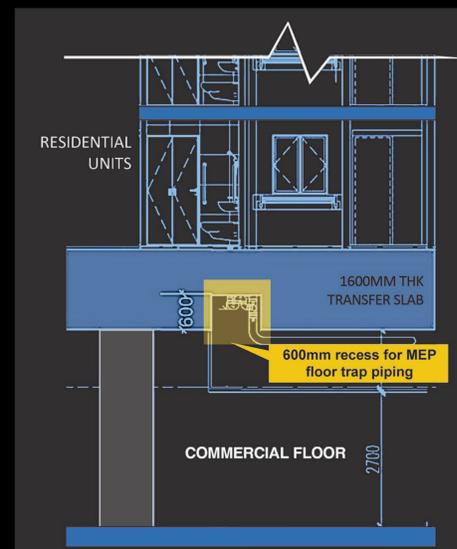


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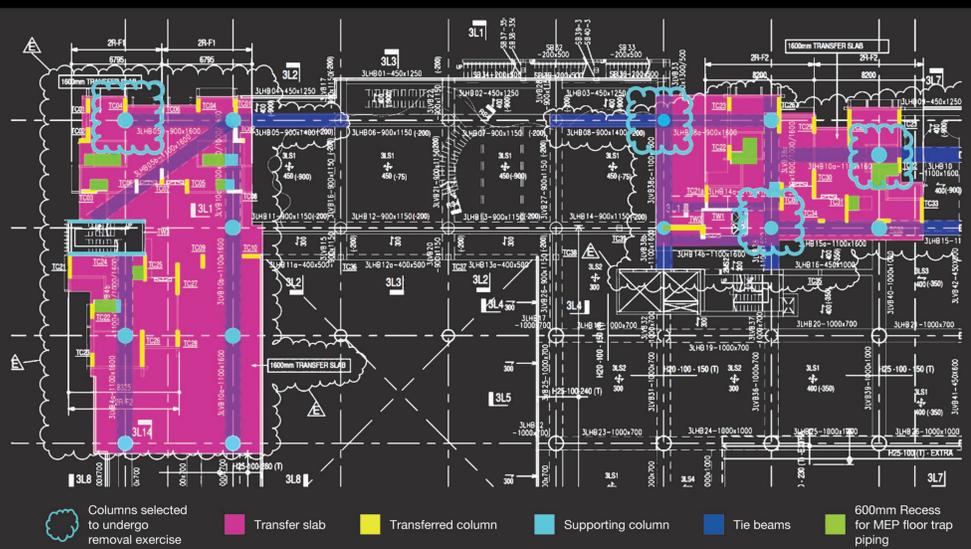
Transfer PT beam used to ensure headroom and control deflection of beam

Planter box used to cover up the transfer PT beams

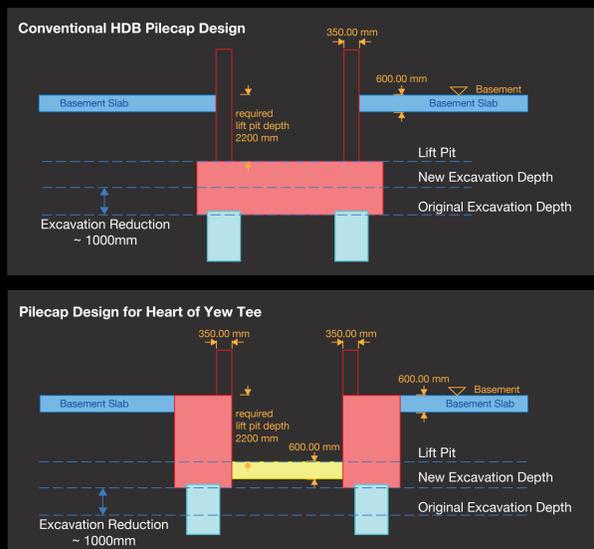
16.2 metre long span beam to create column-free plaza space for wide variety of community activities



A 1.6 metre thick transfer slab system was used to optimise floor efficiency for residential units and commercial floors



Columns selected to undergo removal exercise  
 Transfer slab  
 Transferred column  
 Supporting column  
 Tie beams  
 600mm Recesses for MEP floor trap piping



Lift pit's pile cap are raised to reduce excavation depth