

TAYLOR'S
UNIVERSITY



Wisdom • Integrity • Excellence

**SCHOOL OF ARCHITECTURE, BUILDING & DESIGN
BACHELOR OF SCIENCE (HONOURS) ARCHITECTURE
BUILDING STRUCTURE (ARC 2523)**

PROJECT 2 : EXTENSION OF AN R.C BUNGALOW

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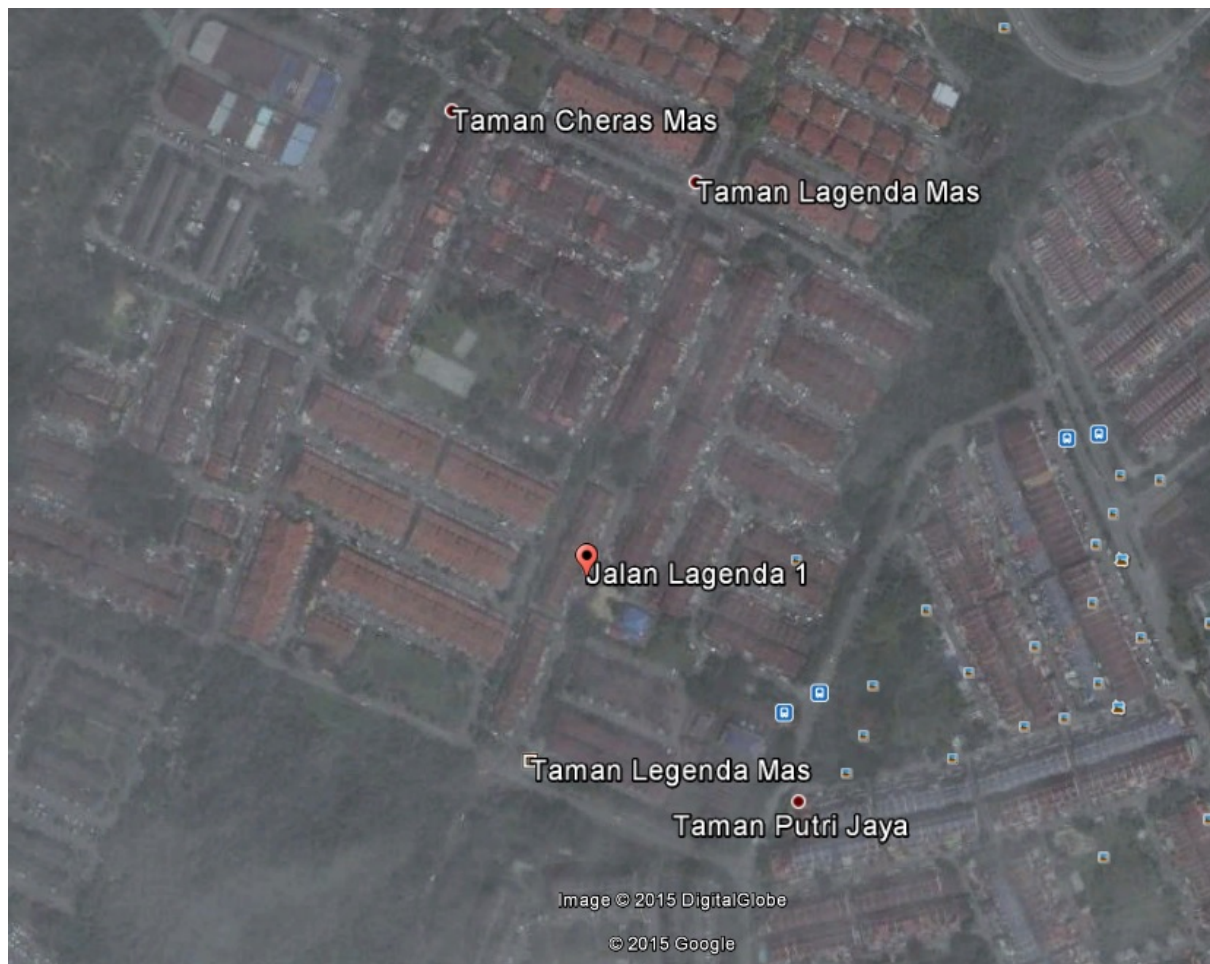
6. Individual Calculations for Beams

1. Introduction to Site

The site we have chosen is a 3-storey residential bungalow designed by Ateliar, ADT Arkitek Sdn Bhd. The bungalow is located in a gated community at the foothills of Ah Pek Hills in Cheras, Selangor Darul Ehsan, and covers 750 square meters.

The house is comprised of a living area, dining room, a dry and wet kitchen, 2 master bedrooms, 6 bedrooms, and 7 toilets. The house is one of 3 design bungalows in the community, which consists of a total of 26 residential houses. The house began construction in 2012, only a year prior to its completion in 2013.

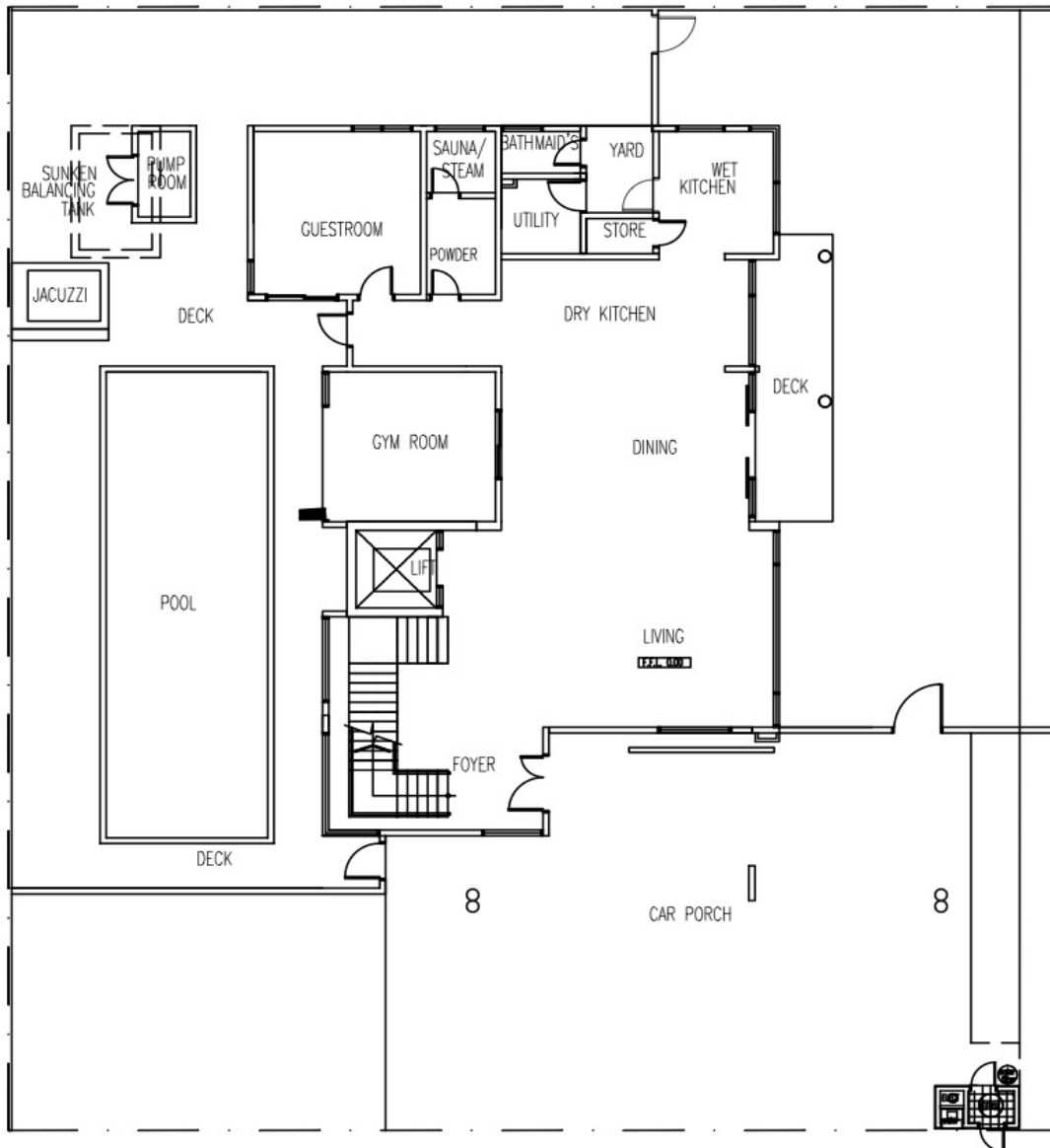
Jalan Legenda 1, Taman Legenda Mas, Cheras, Selangor



2. Structural Plans

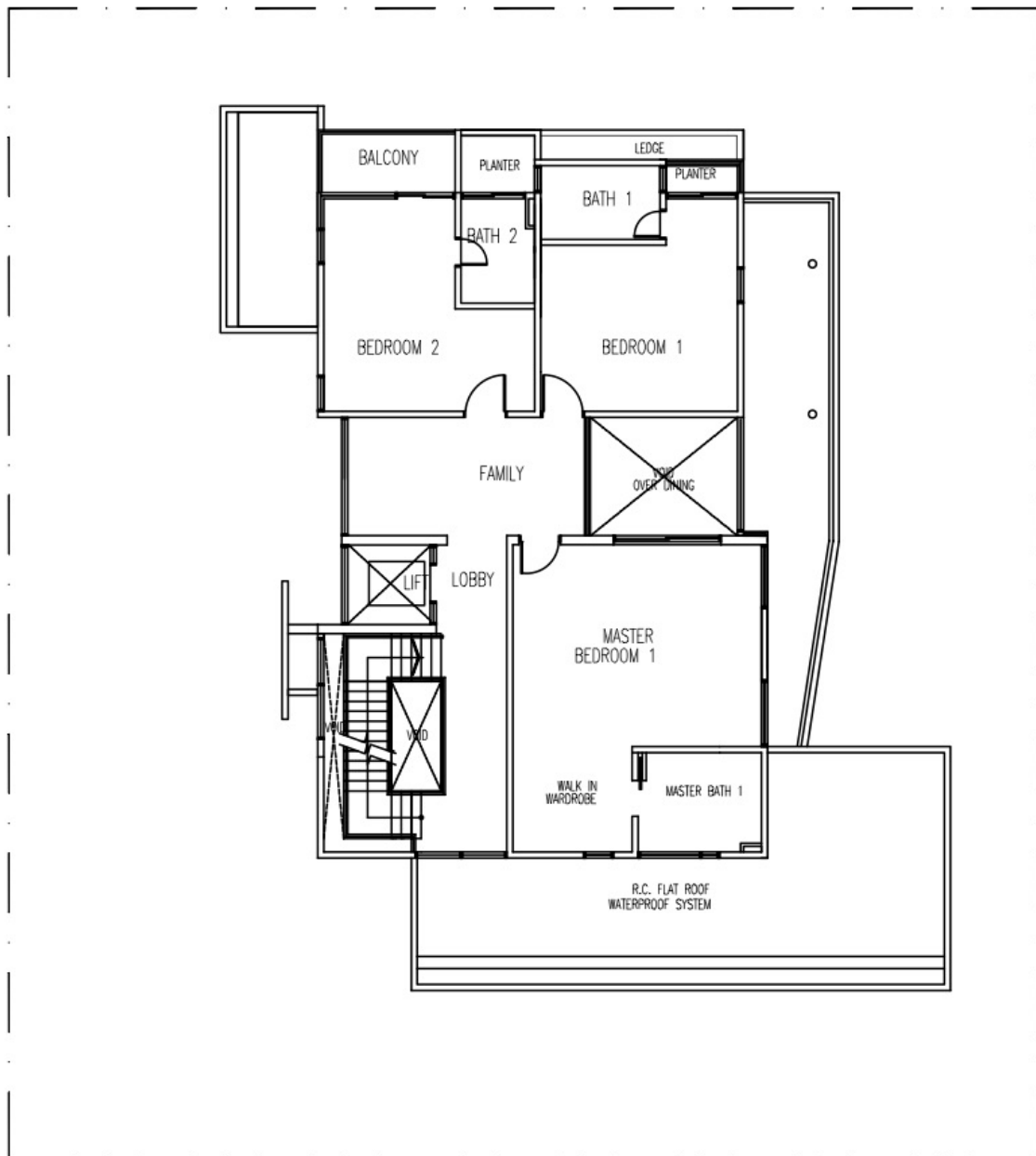
2.1 Floor Plans

2.1.1 Ground Floor Plans



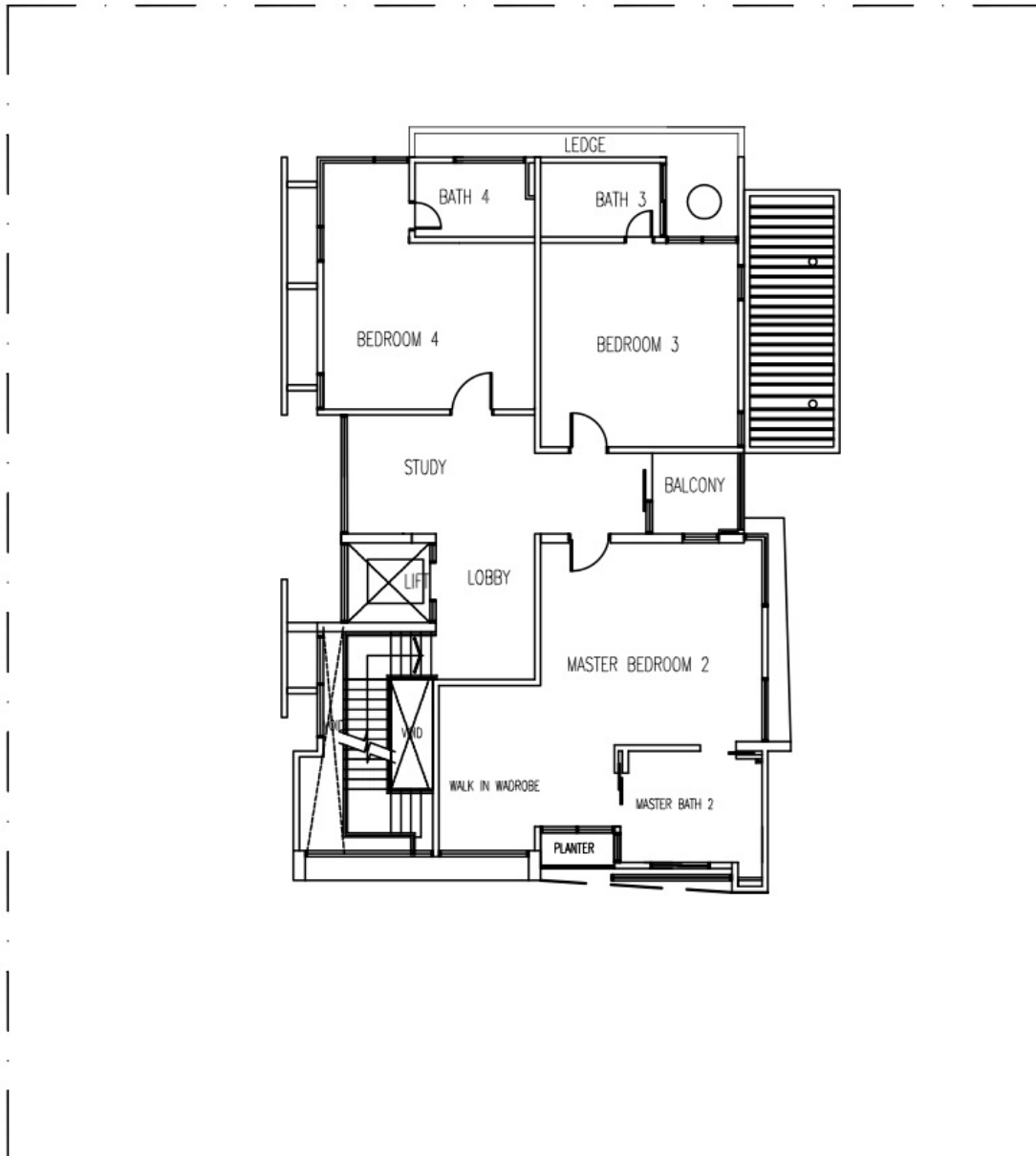
PELAN TINGKAT BAWAH

2.1.2 First Floor Plans



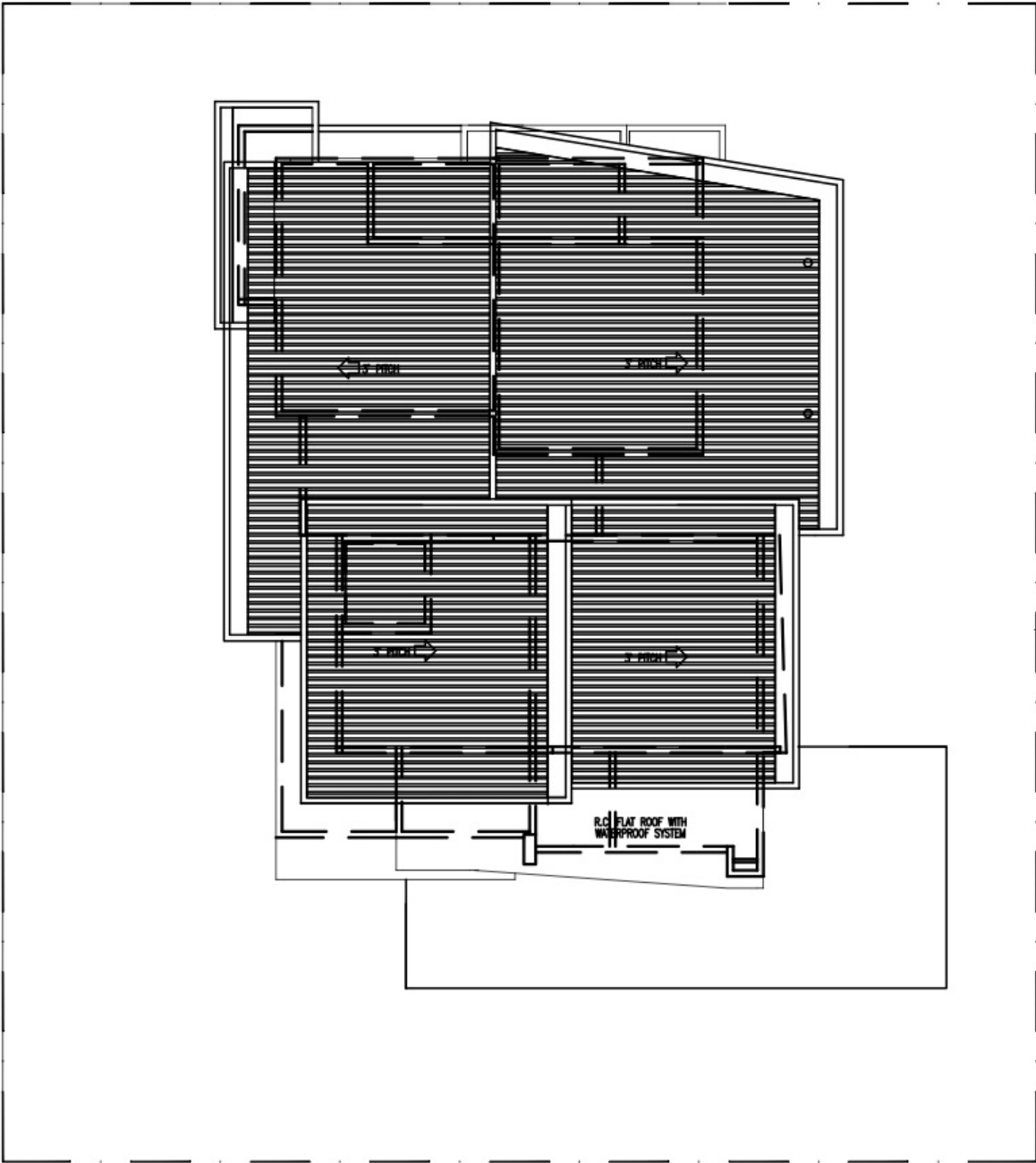
PELAN TINGKAT SATU

2.1.3 Second Floor Plans



PELAN TINGKAT DUA

2.1.4 Roof Plan



PELAN TINGKAT BUMBUNG

2.2 Elevations

2.2.1 Front Elevation



2.2.2 Rear Elevation



2.2.3 Left Elevation

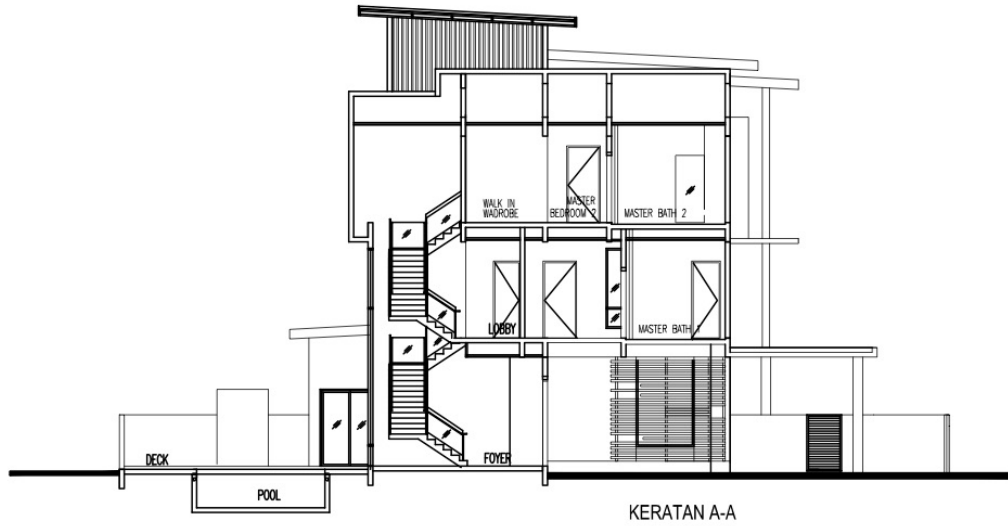


2.2.4 Right Elevation

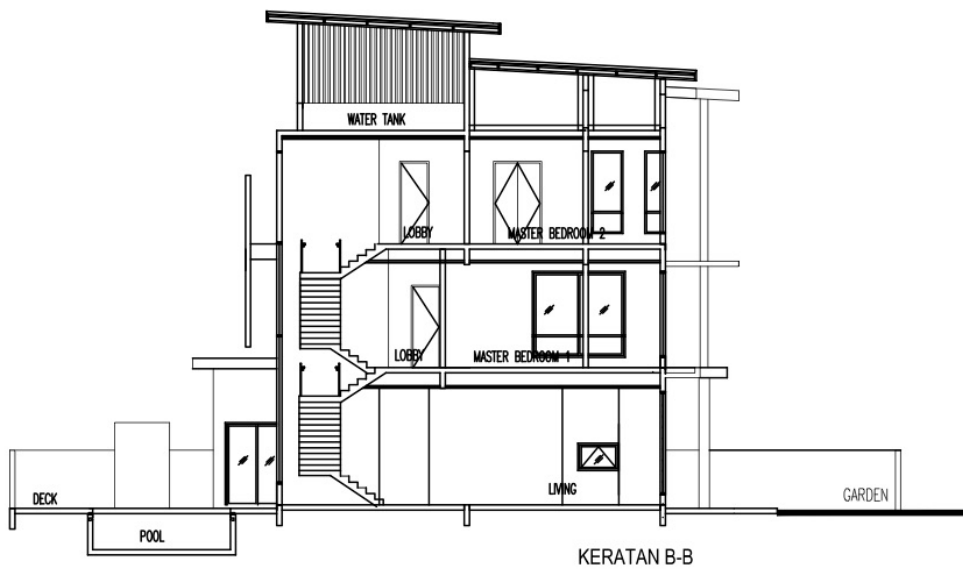


2.3 Sections

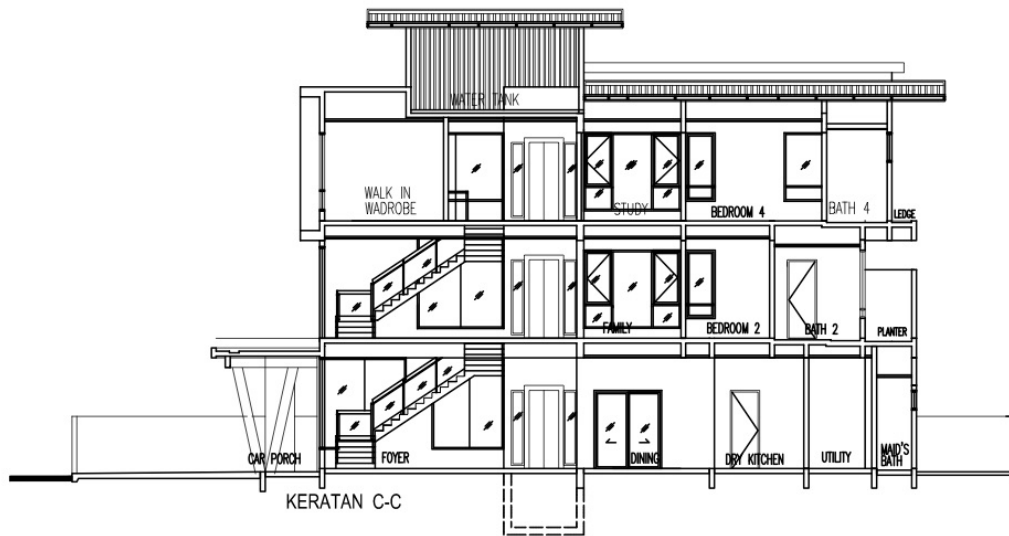
2.3.1 Section A-A



2.3.2 Section B-B

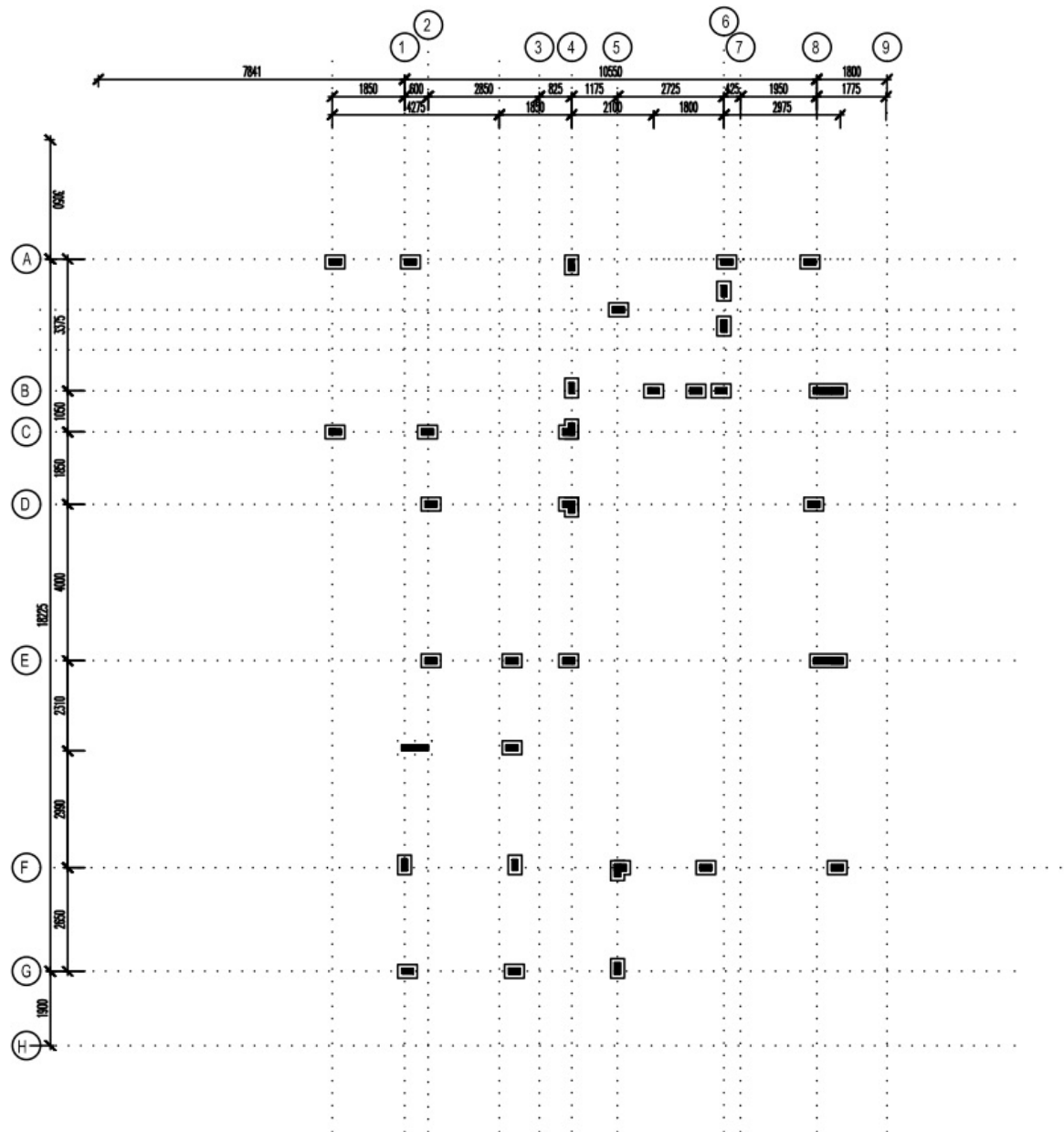


2.3.3 Section C-C

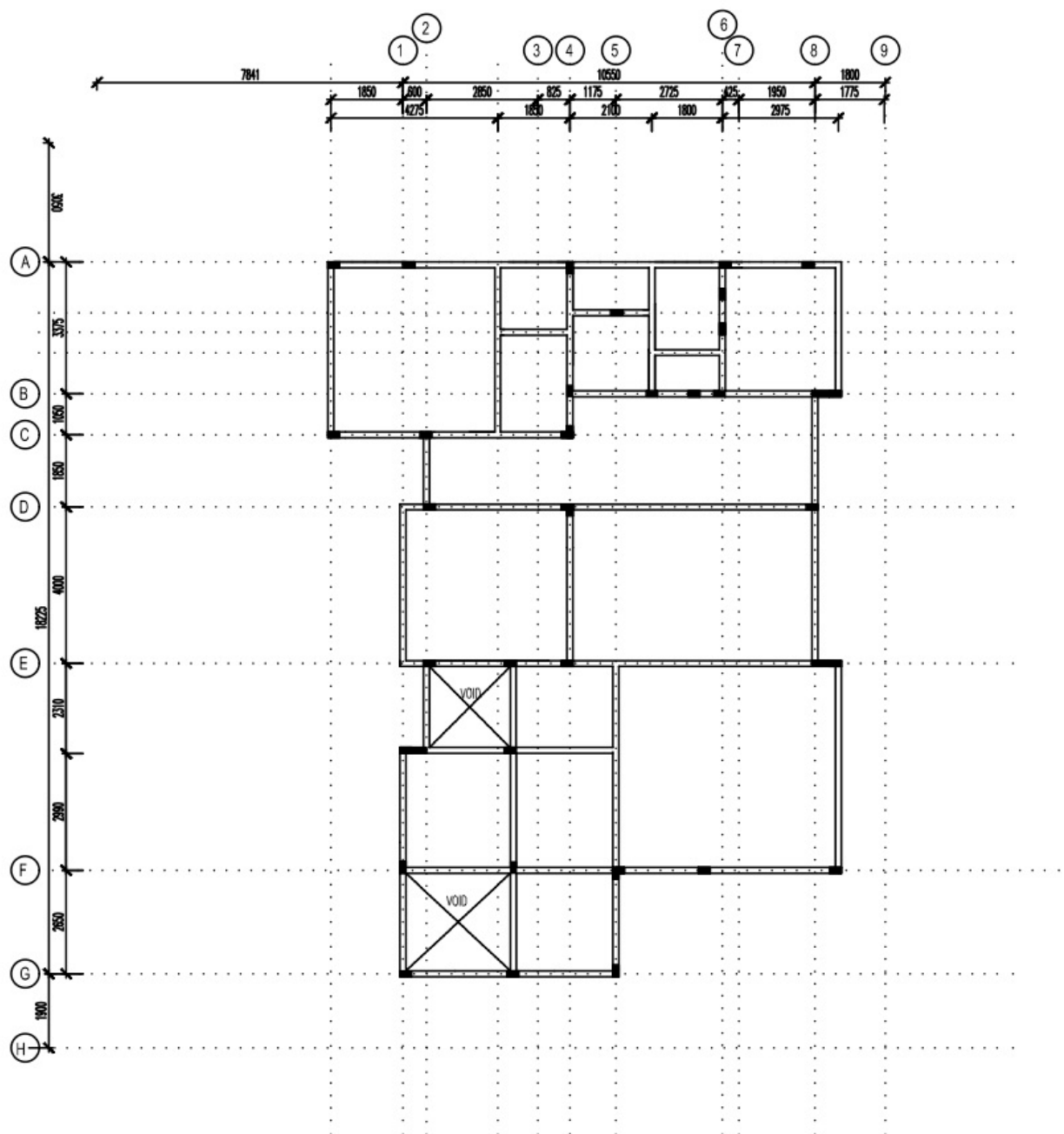


3. Structural Drawings

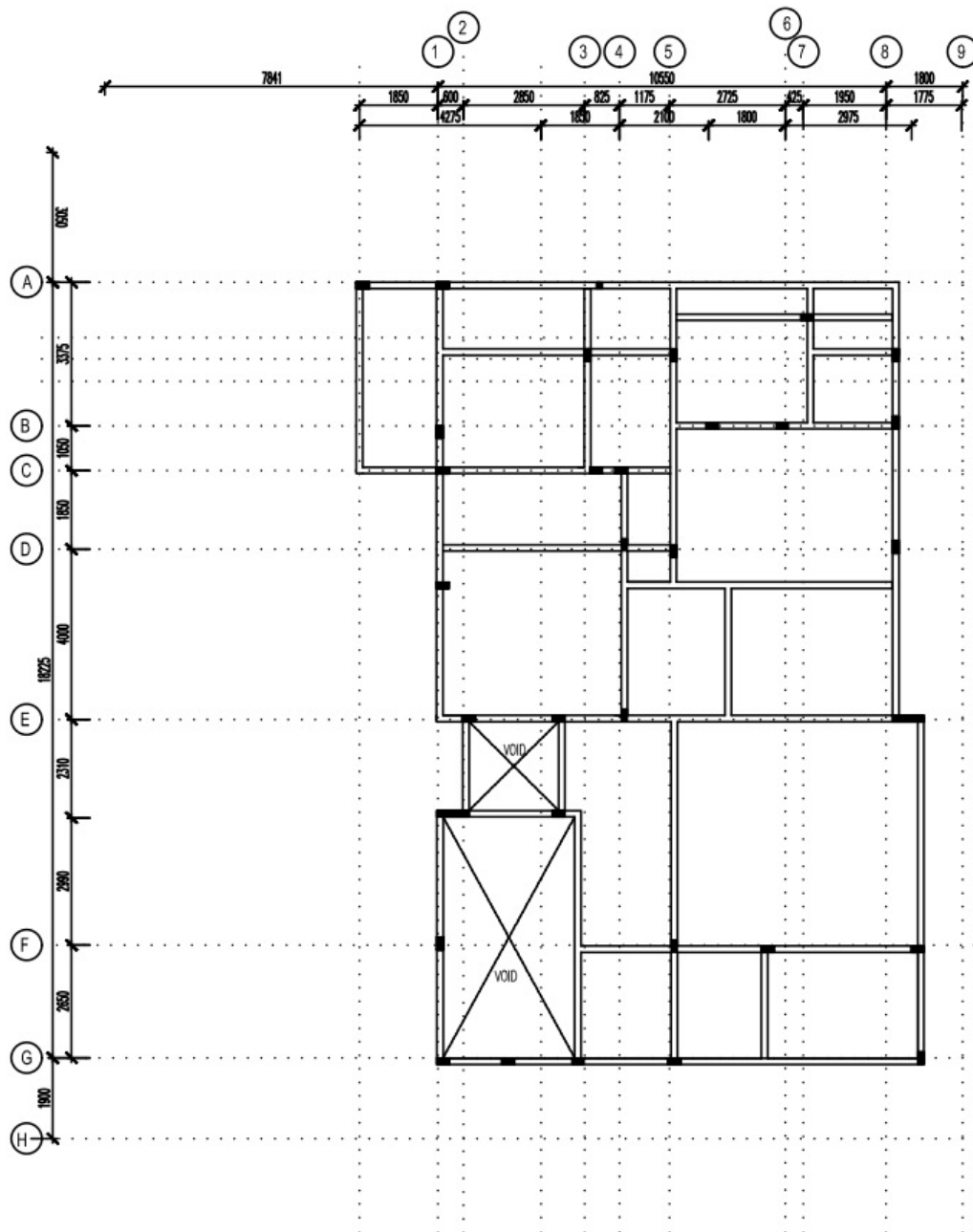
3.1 Foundation Plan



3.2 Ground Floor Structural Plan



3.3 First Floor Structural Plan



3.4 Second Floor Structural Plan

