

PERANCANGAN STRUKTUR BANGUNAN SEDERHANA

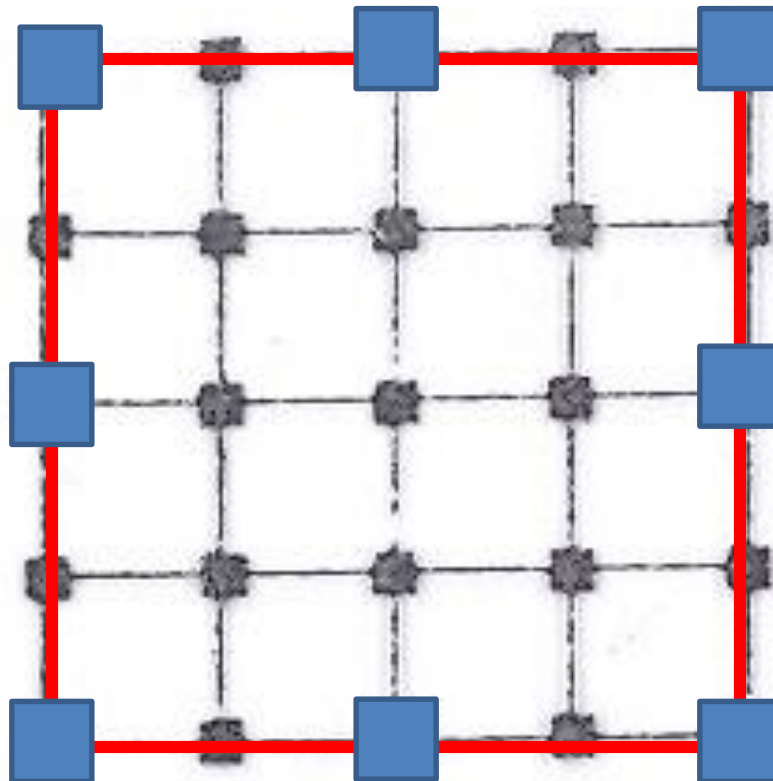


STRUKTUR BANGUNAN SEDERHANA
GENAP 2020/2021

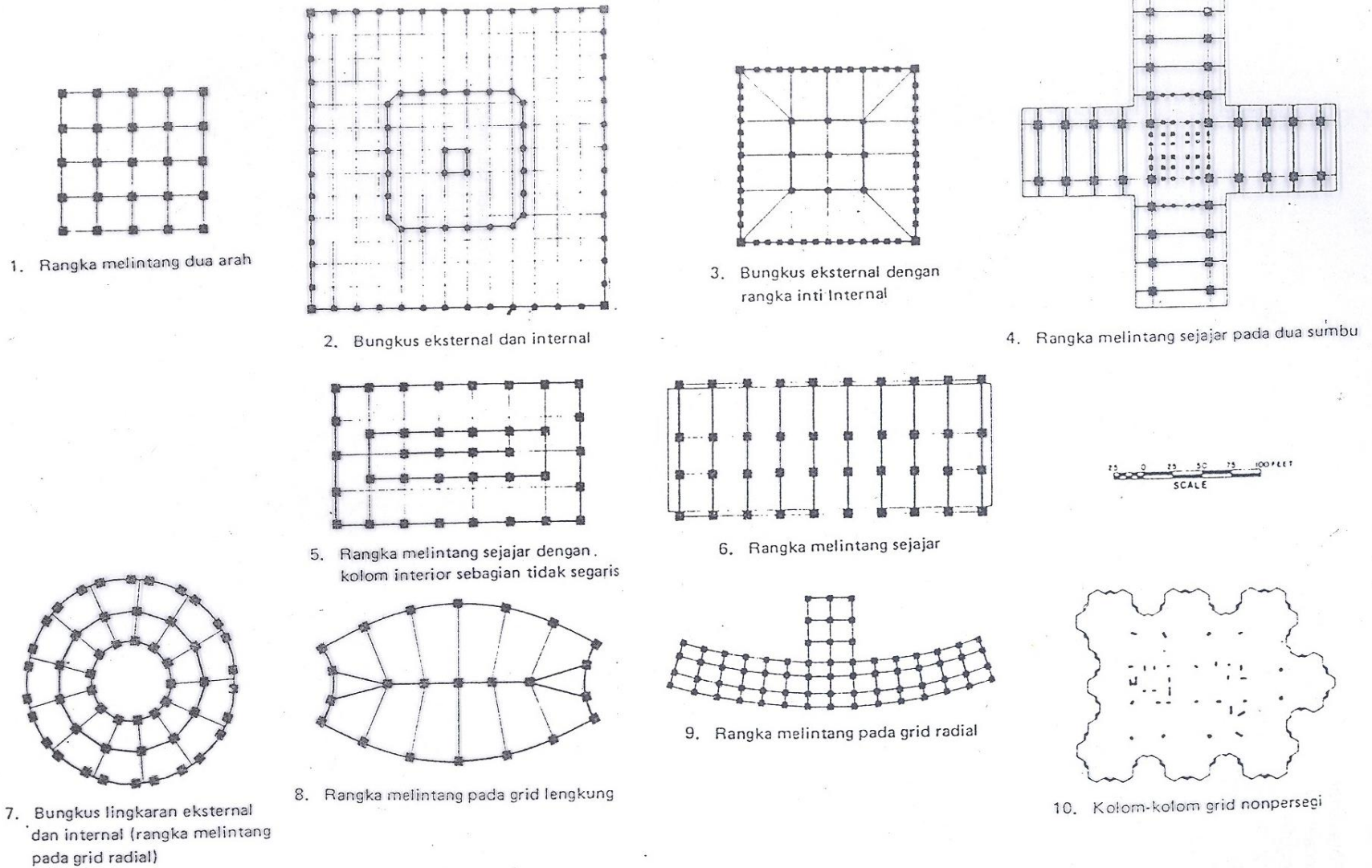
INDAH PUJIYANTI, S.T.,M.Sc



GRID STRUKTUR

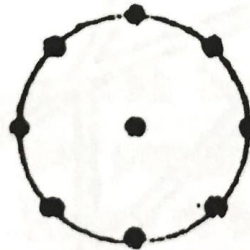
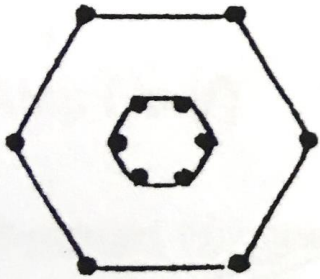
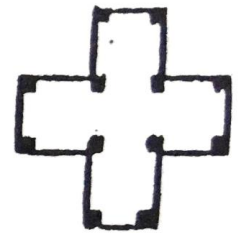
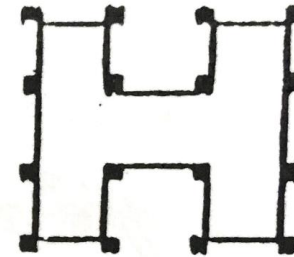
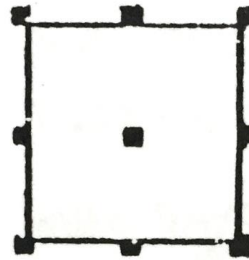
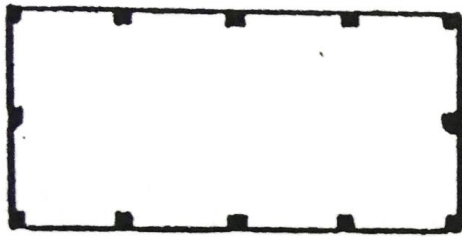


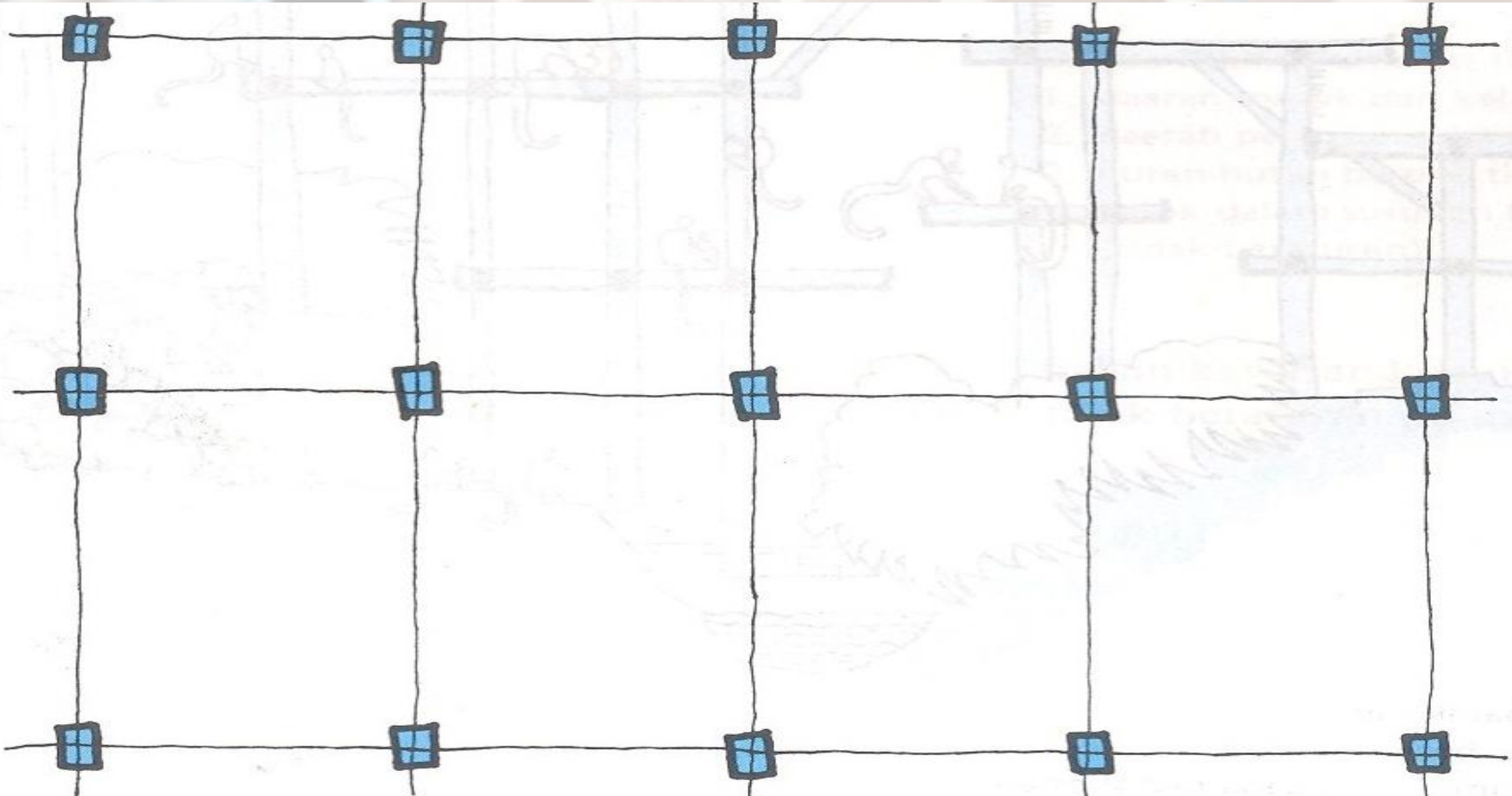
Rangka melintang dua arah

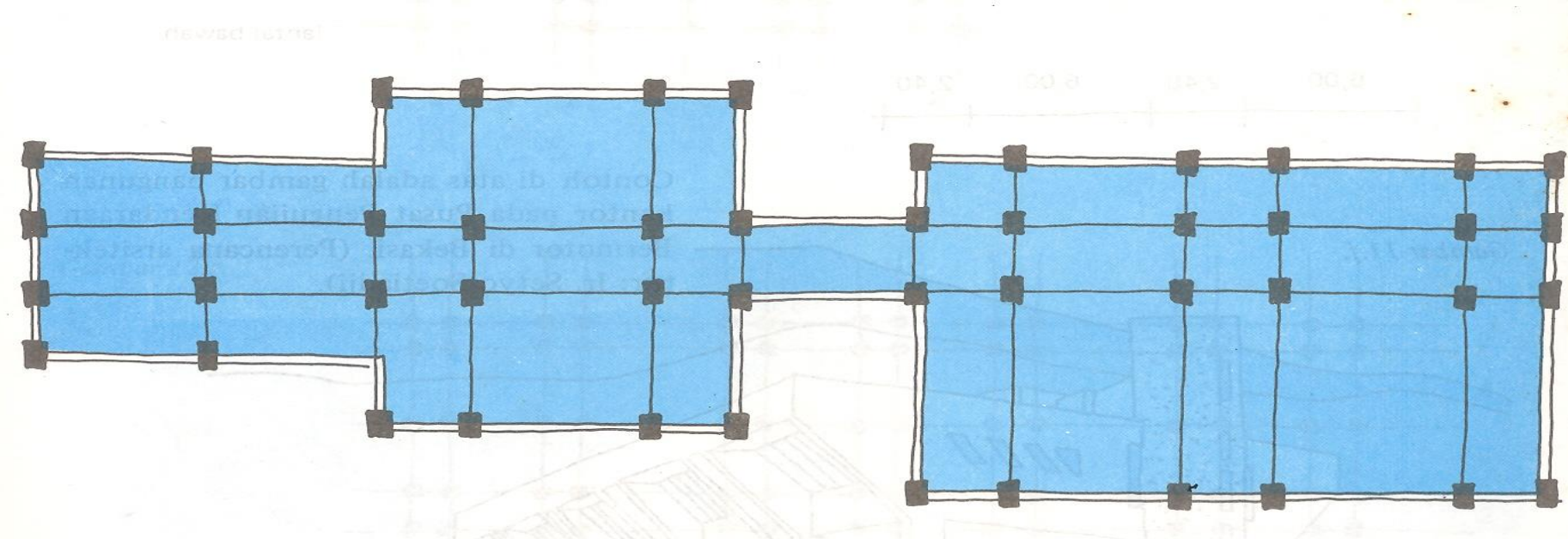


Gbr. 5.10: Sistem struktur rangka

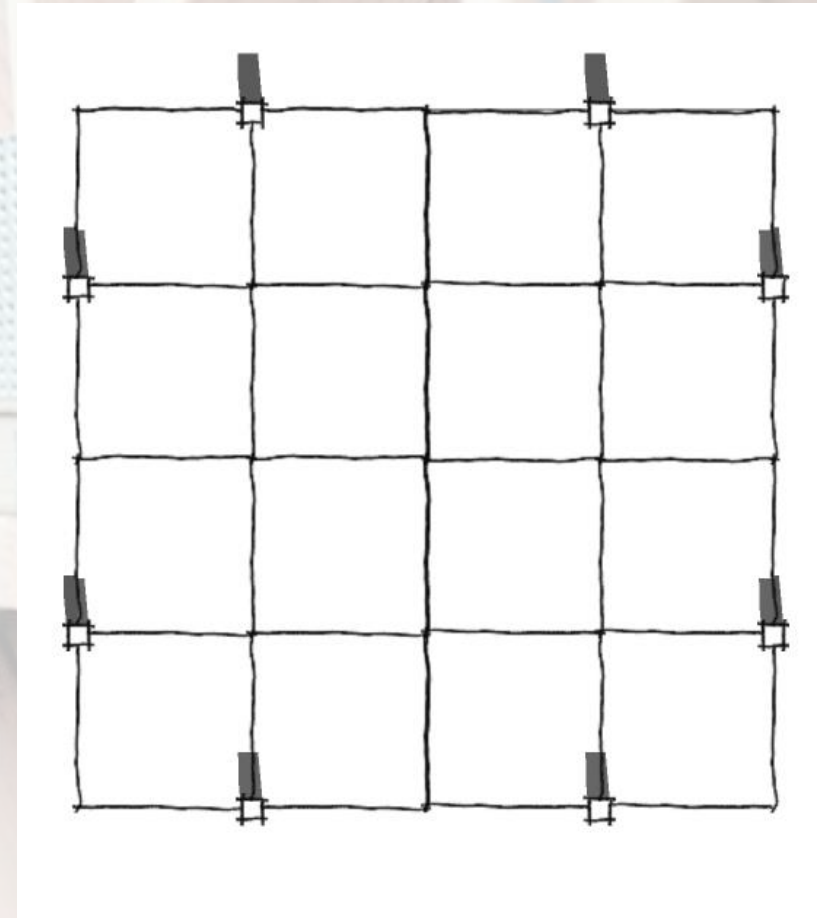
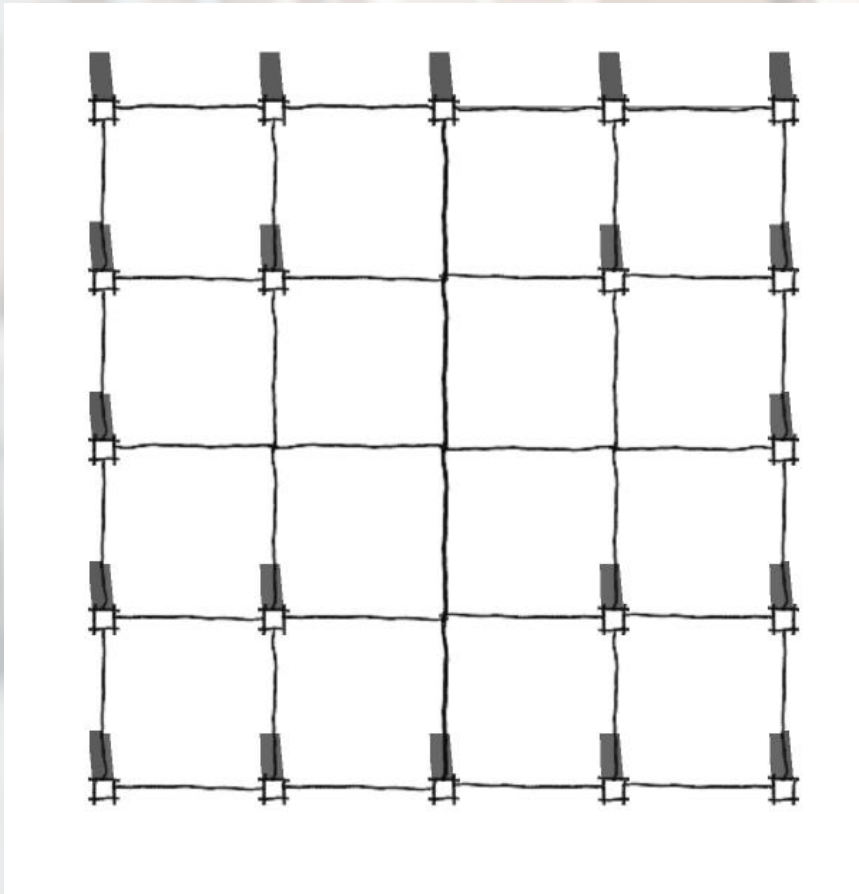
BENTUK STRUKTUR SEDERHANA DAN SIMETRIS:



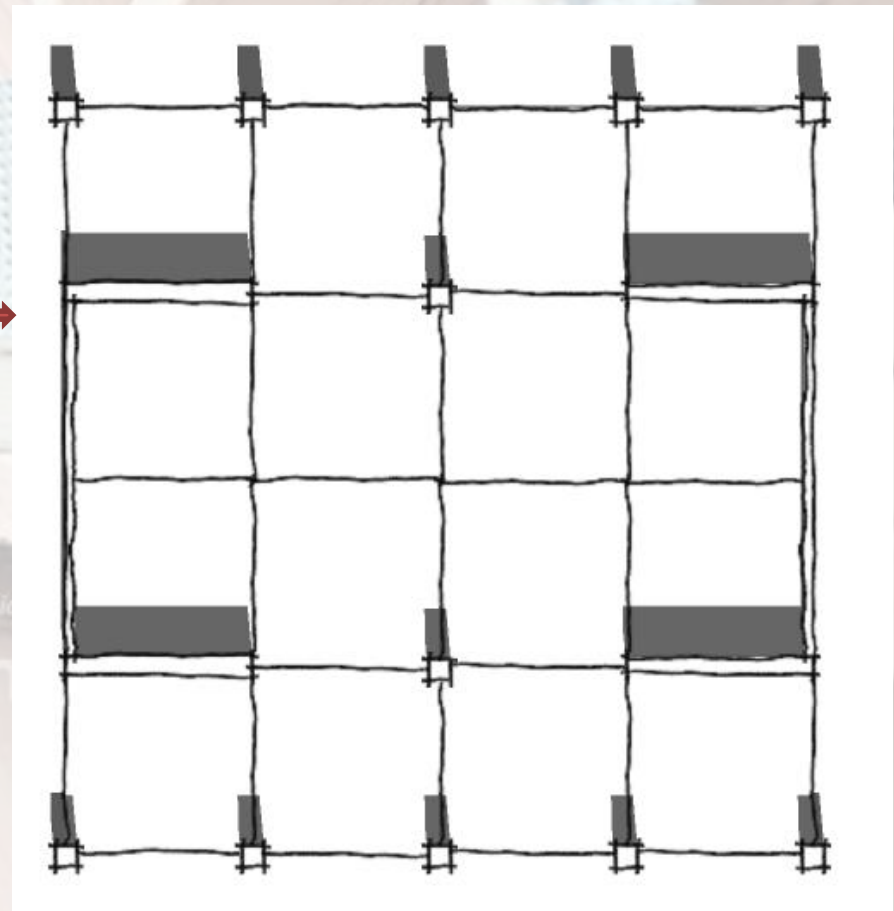
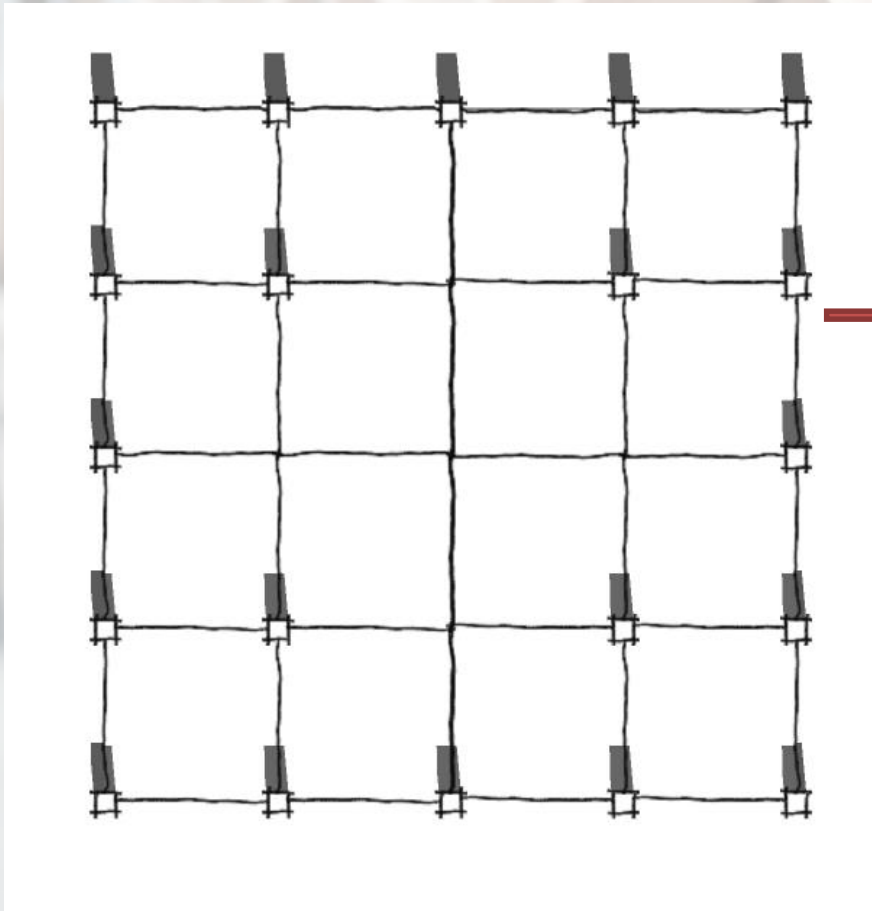




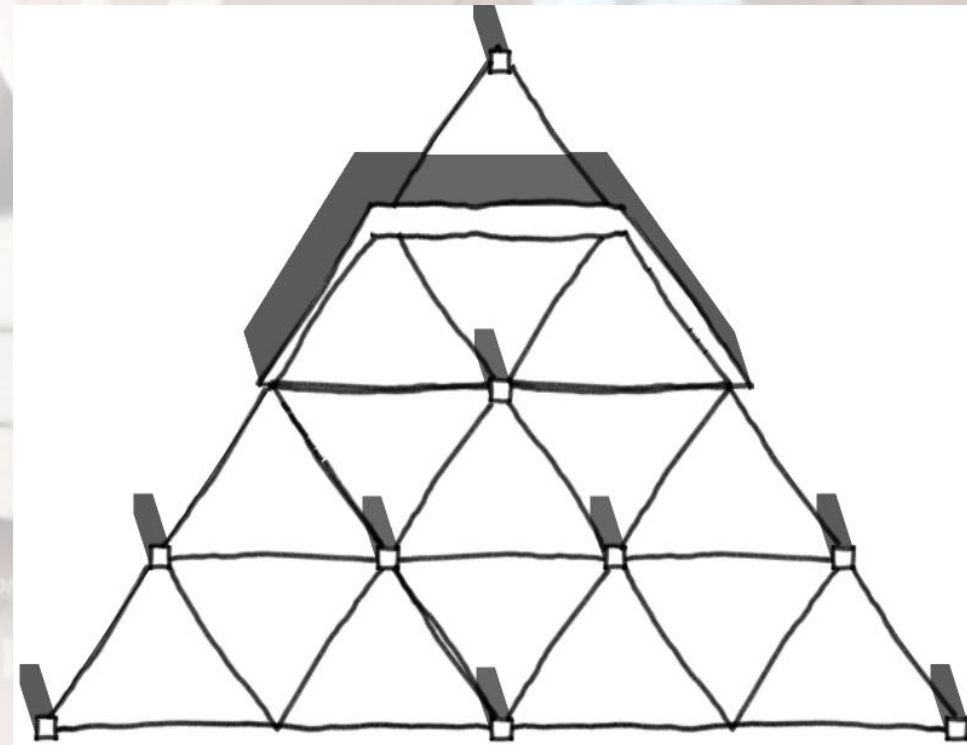
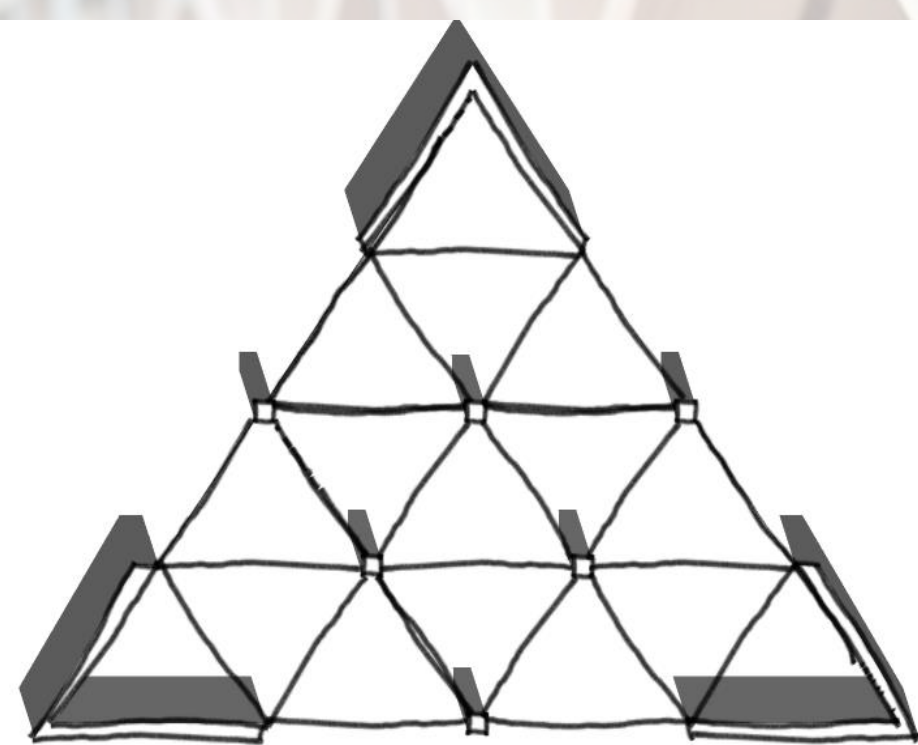
Contoh Grid pada denah persegi



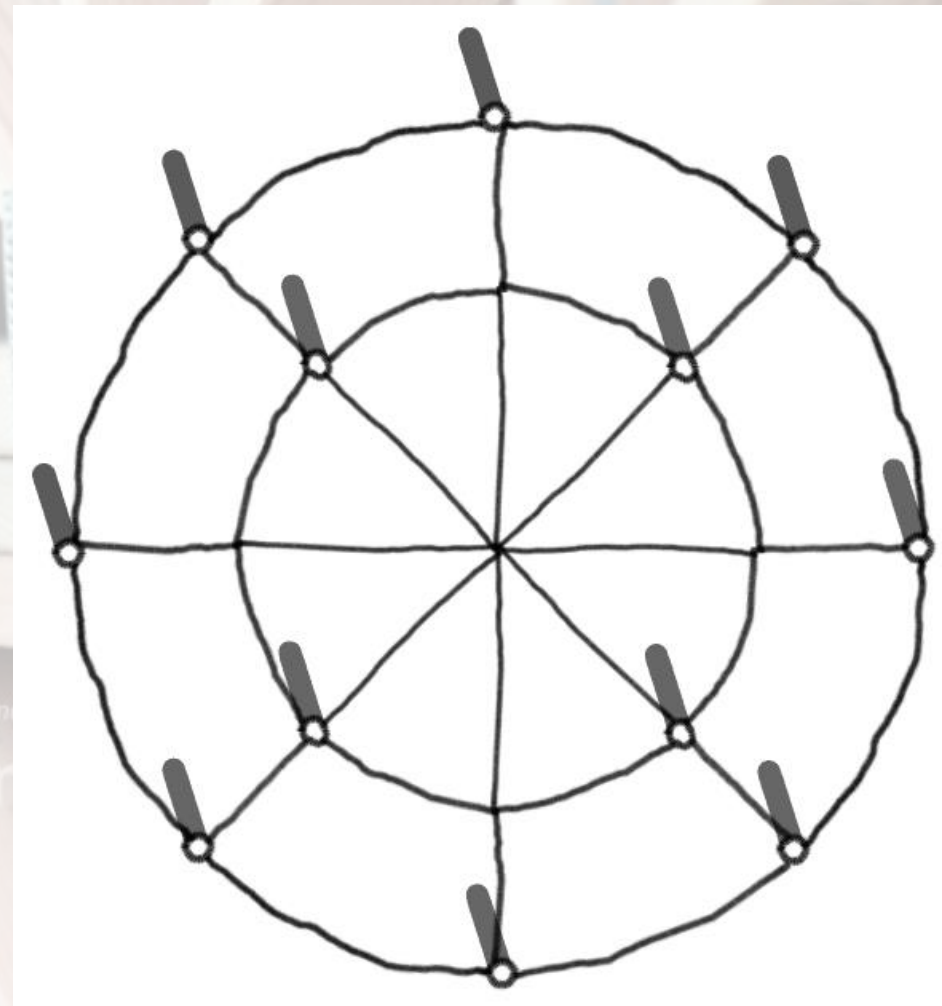
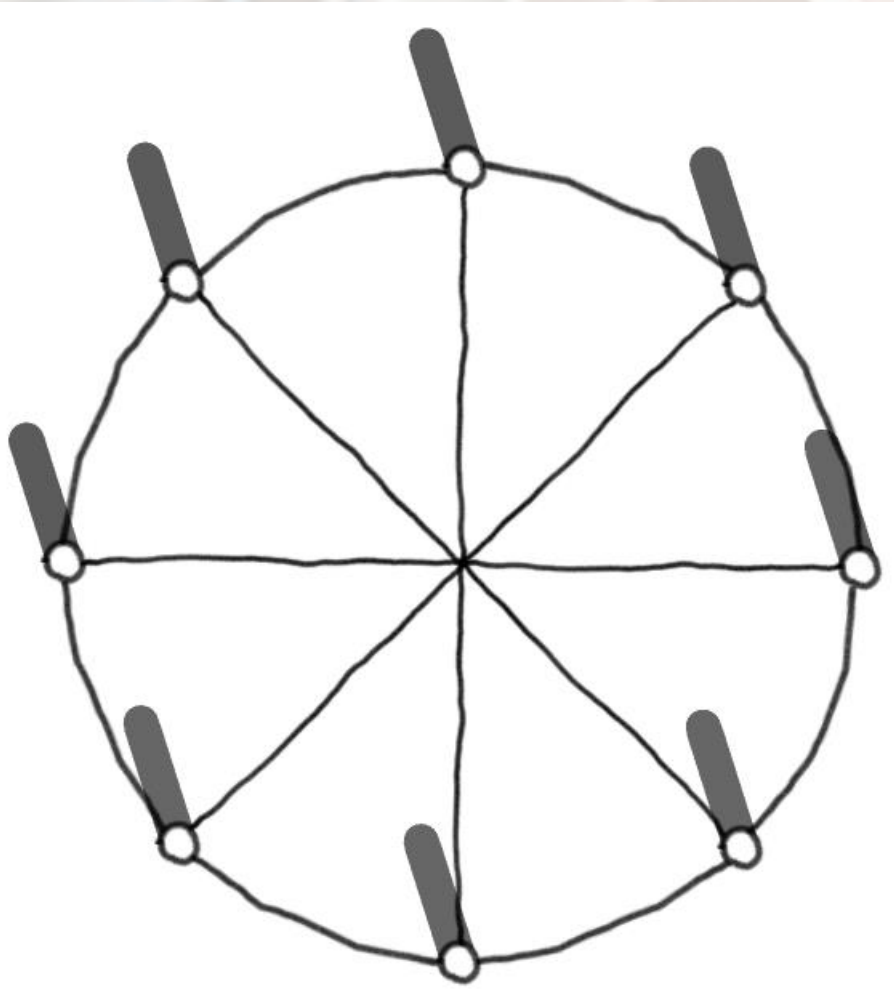
Perpaduan struktur kolom dengan Dinding pemikul



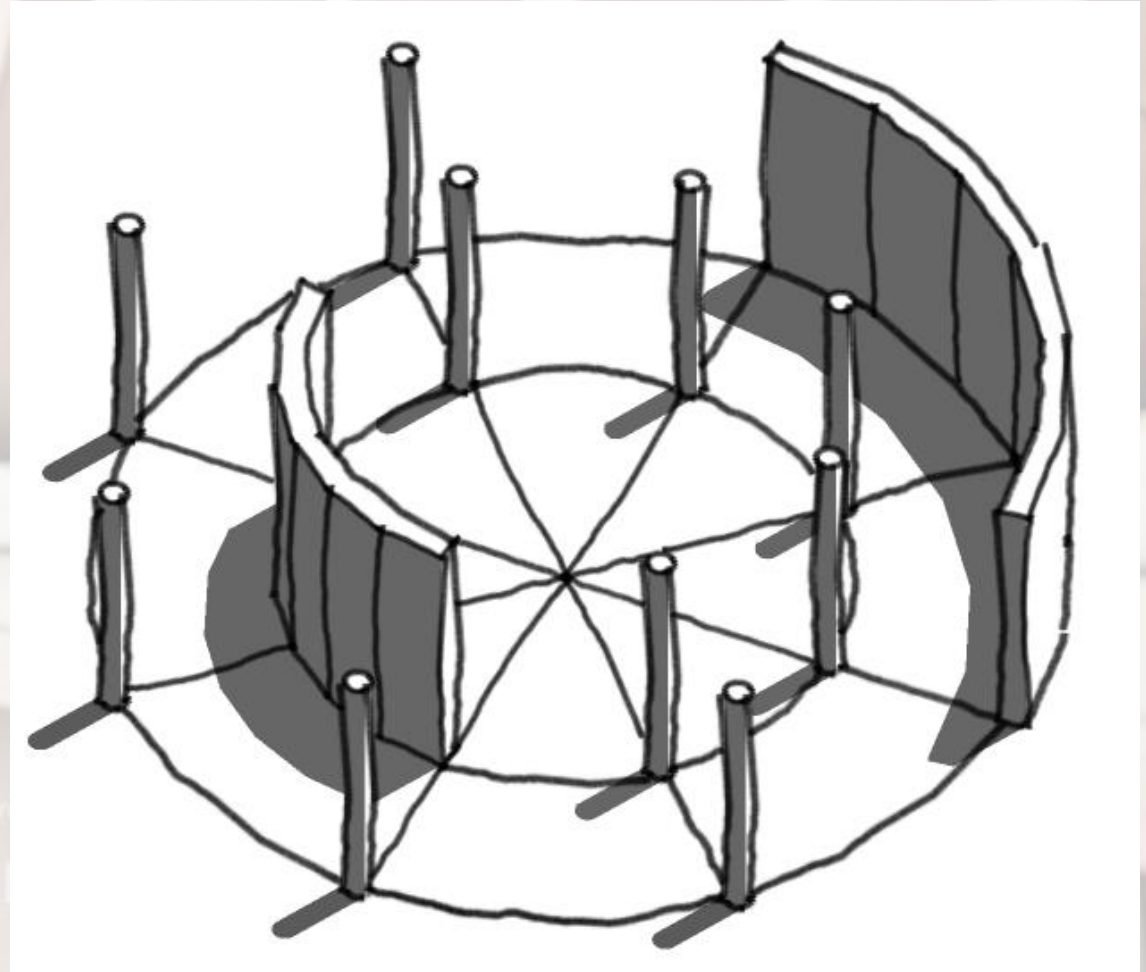
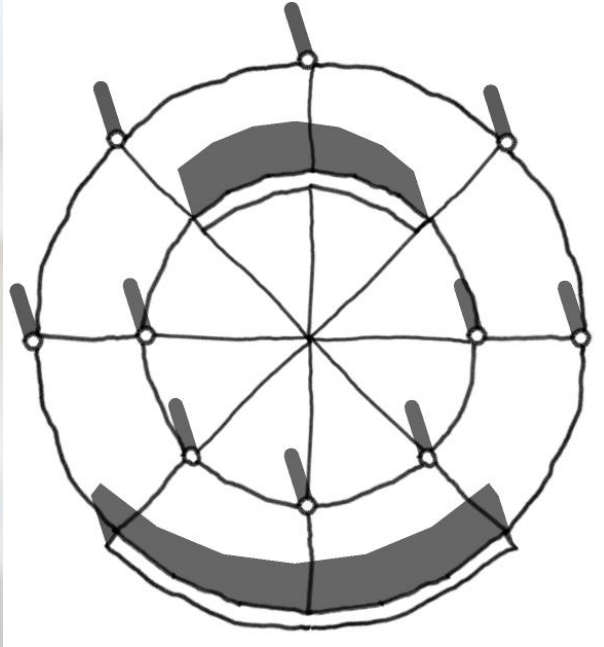
Perpaduan struktur kolom dengan Dinding pemikul

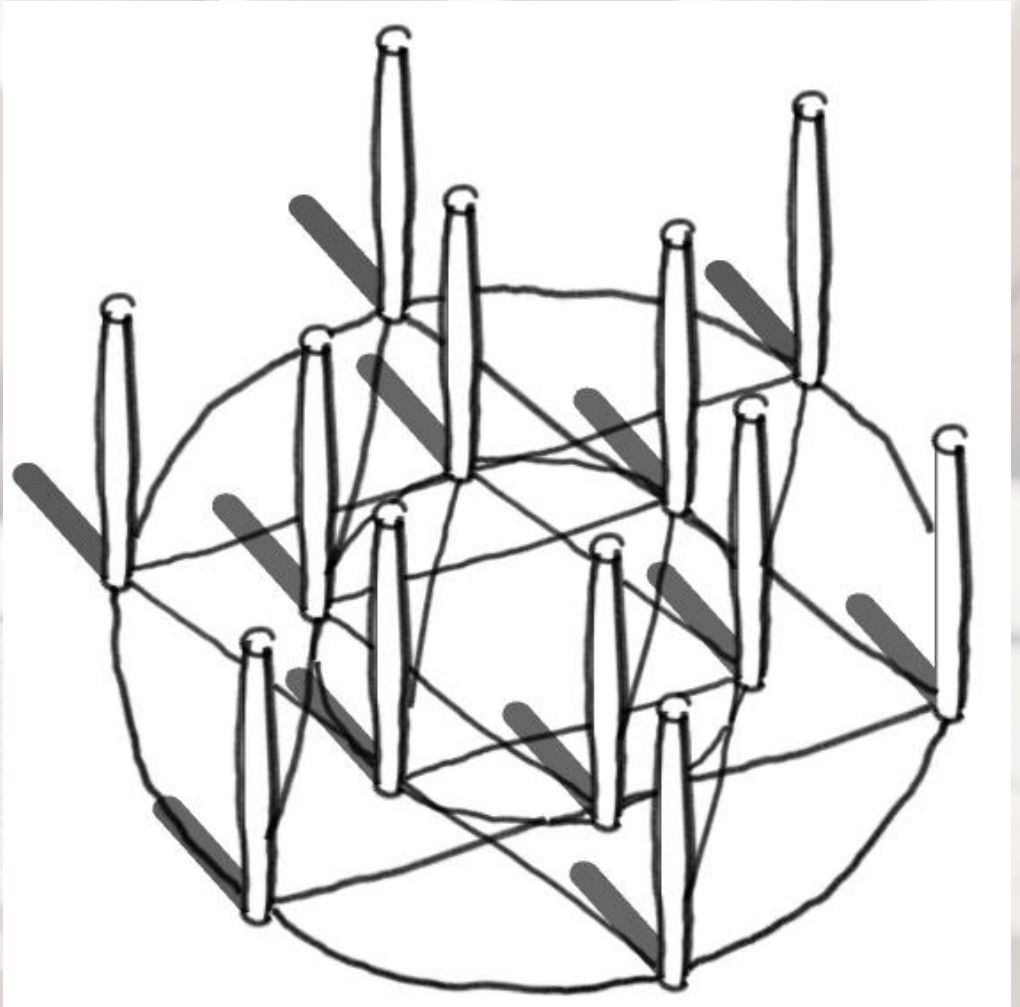
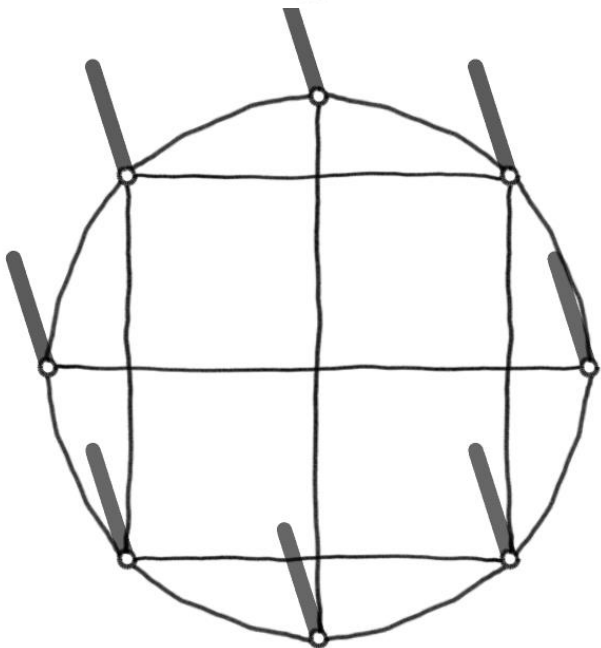
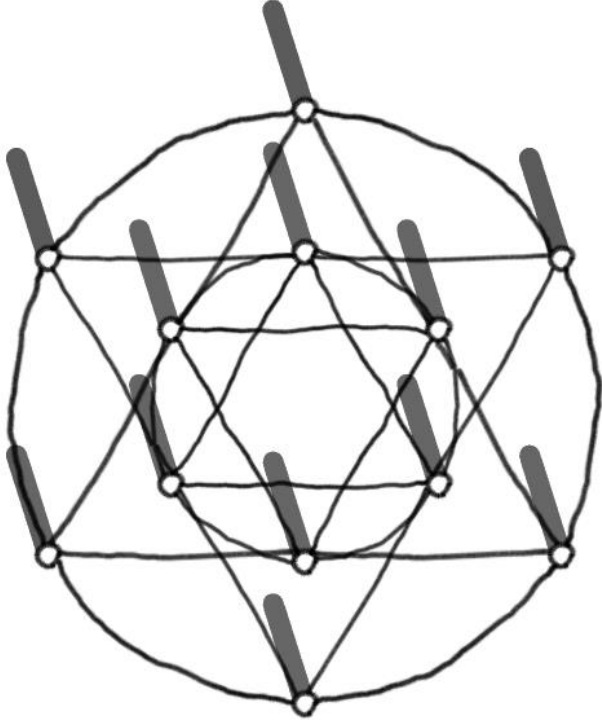


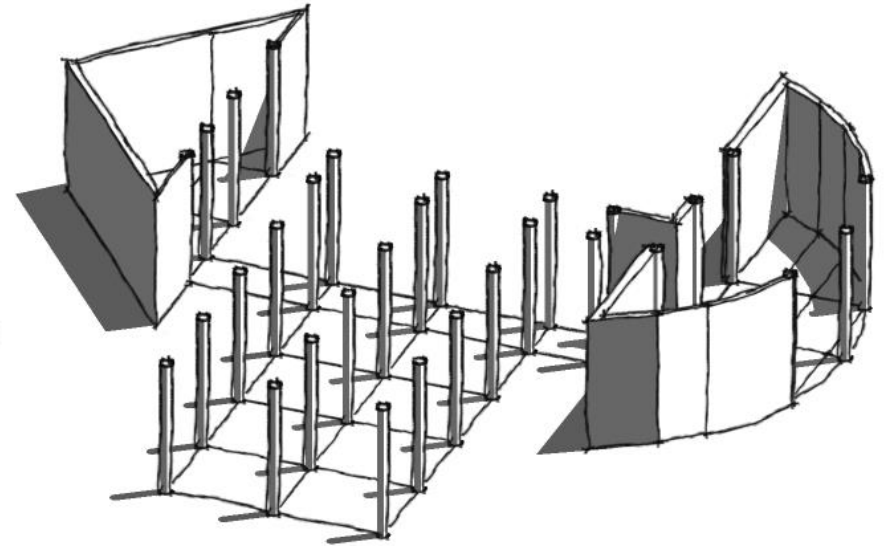
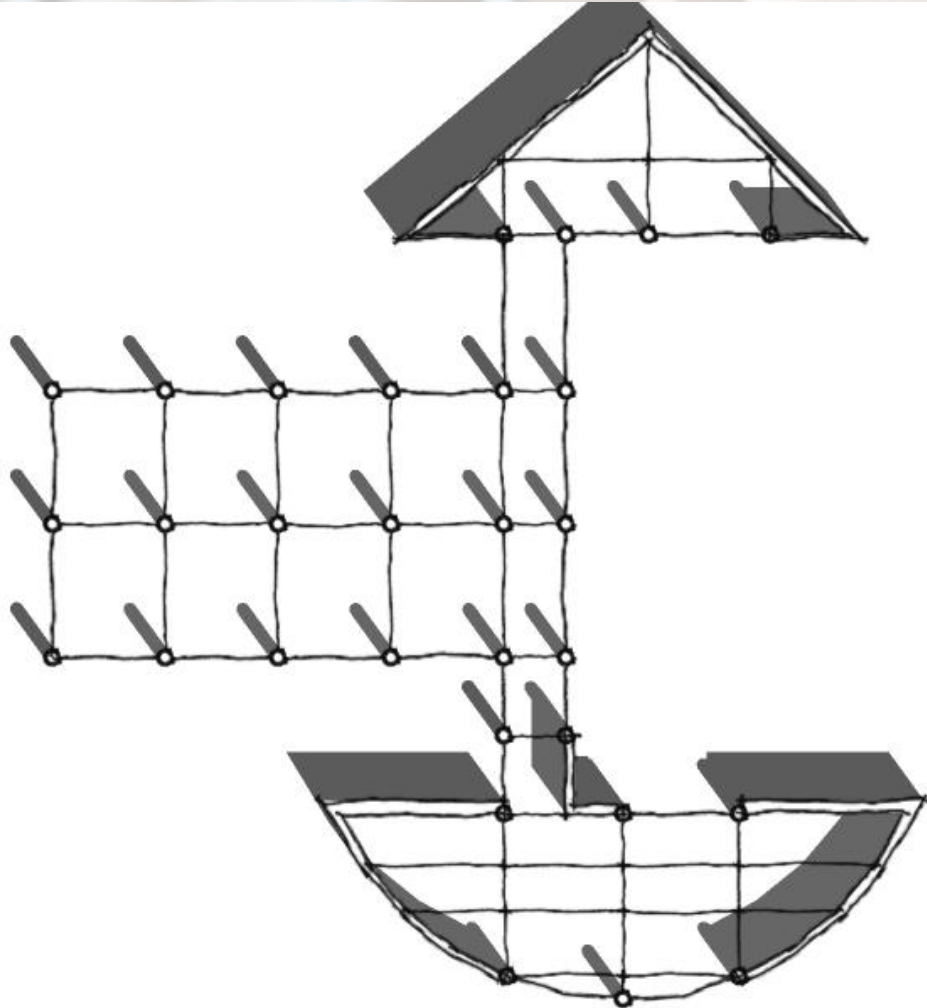
Contoh Grid radial



Perpaduan struktur kolom dengan Dinding pemikul







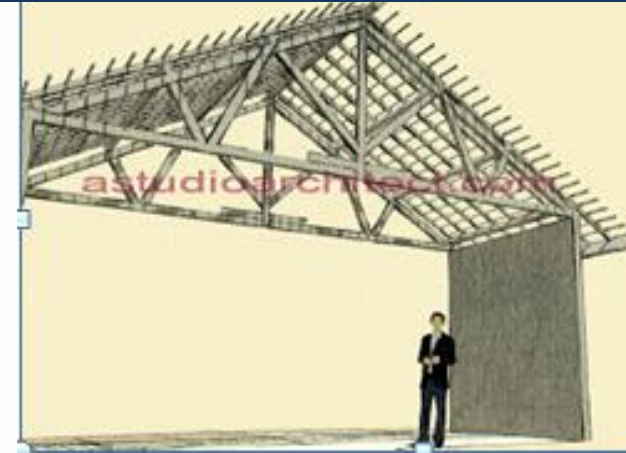
PENENTUAN DESAIN ATAP



Jolopong



Perahu Kumureb



Julang Ngapak



Badak Heuay

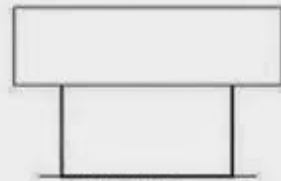


Tagog Anjing

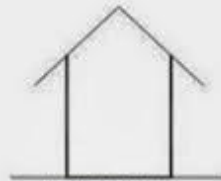


Capit Gunting





PANDANGAN MUKA



PANDANGAN SAMPING

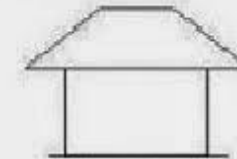


POTONGAN Bujur (I-I)



POTONGAN MELINTANG (II-II)

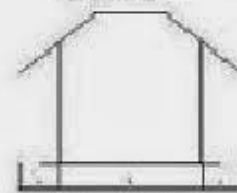
ATAP PELANA



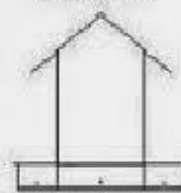
PANDANGAN MUKA



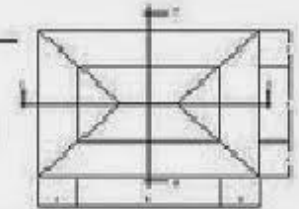
PANDANGAN SAMPING



POTONGAN Bujur (I-I)



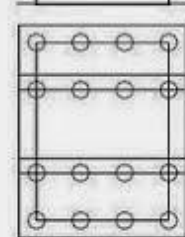
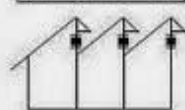
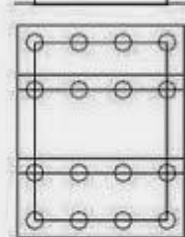
POTONGAN MELINTANG (II-II)



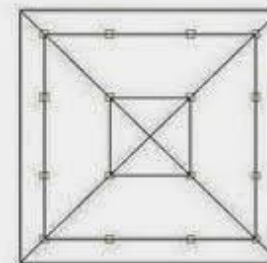
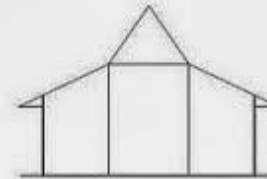
PANDANGAN ATAS

ATAP LIMASAN

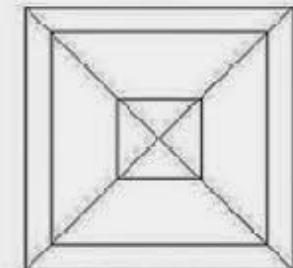
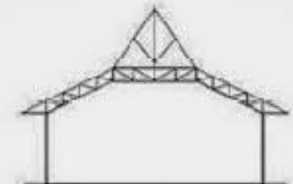
JENIS ATAP



ATAP GERIGI / GERGAJI

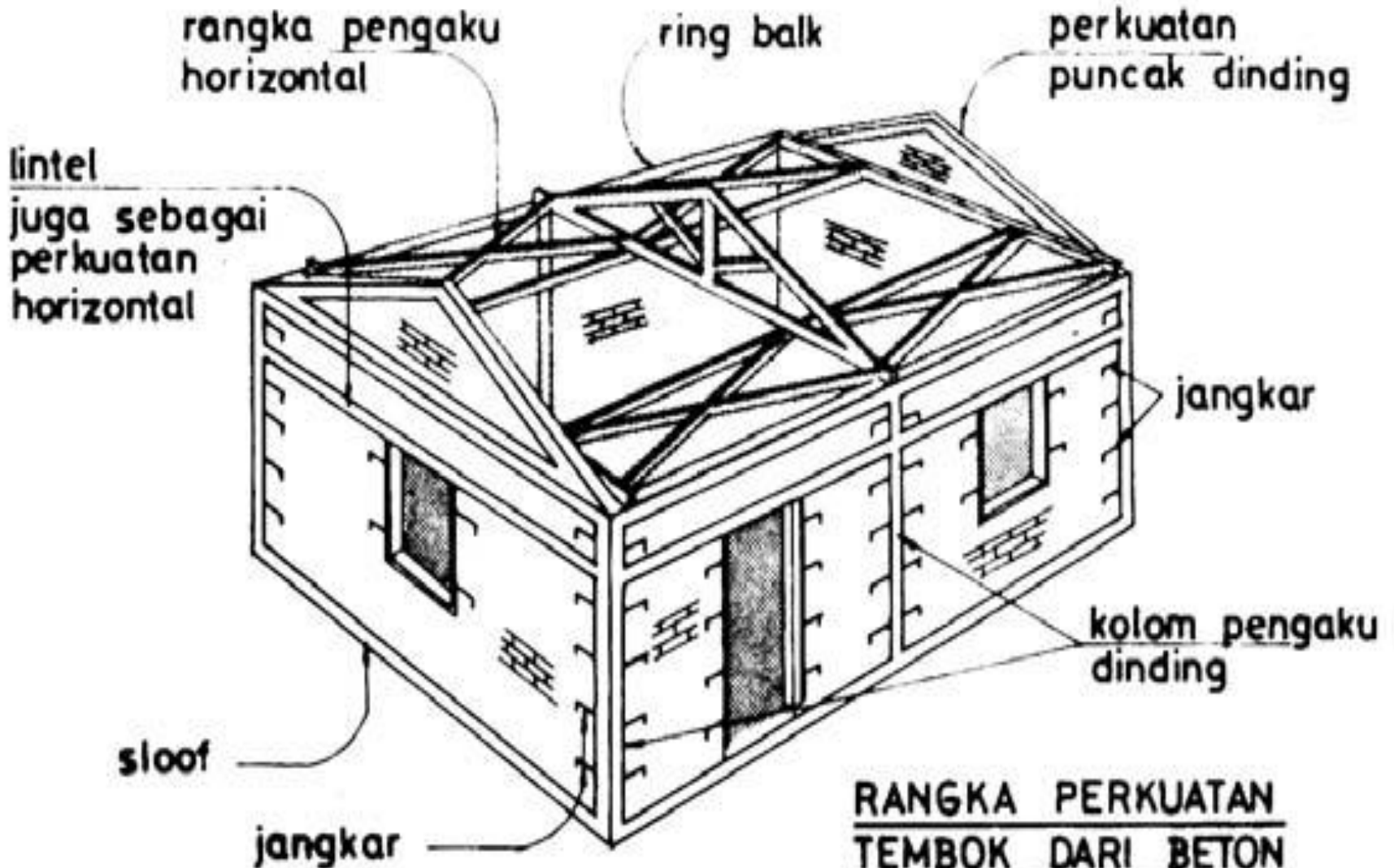


DENGAN SOKO GURU

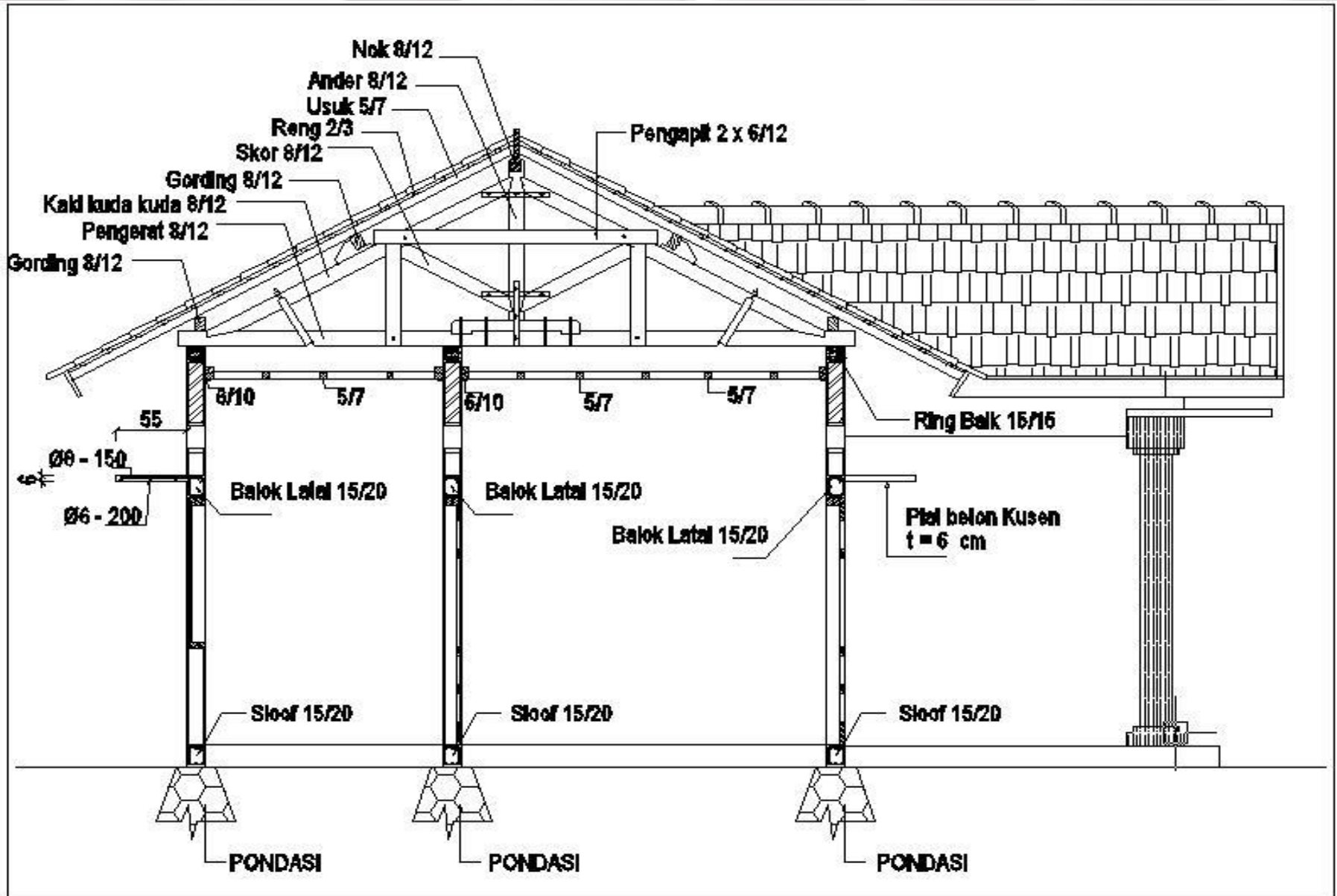


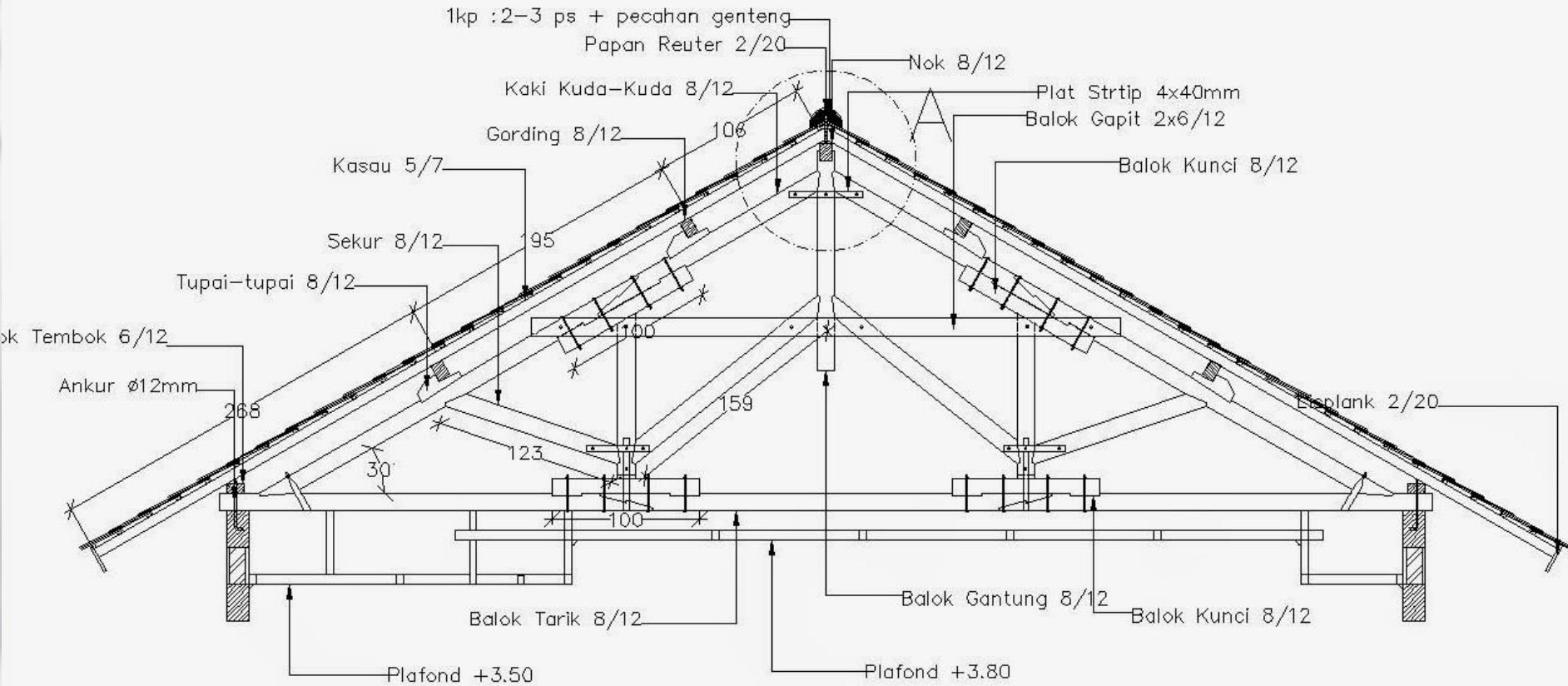
TANPA SOKO GURU

ATAP JOGLO

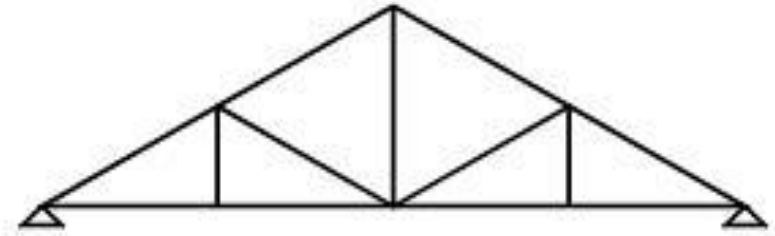
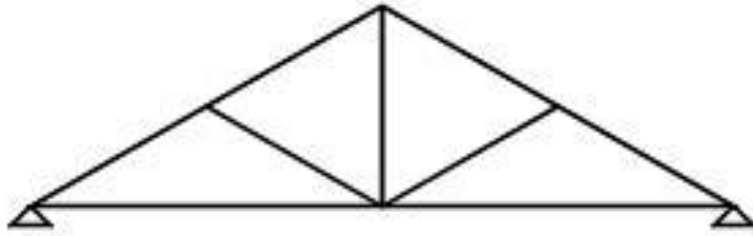


RANGKA PERKUATAN
TEMBOK DARI BETON
BERTULANG

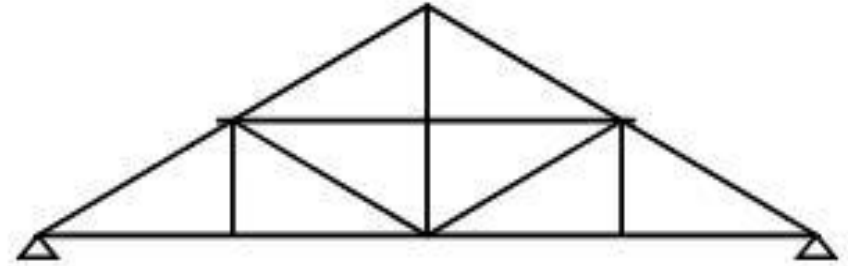
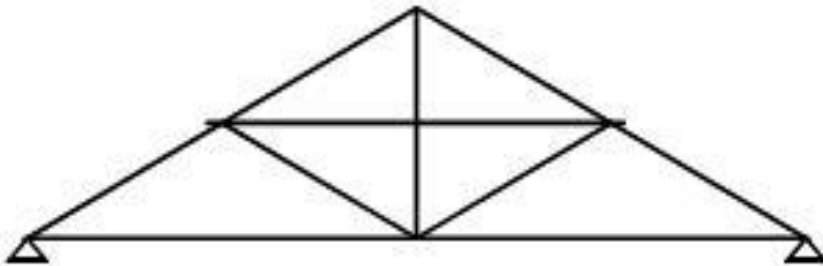




BENTUK KUDA-KUDA BERDASARKAN BENTANG

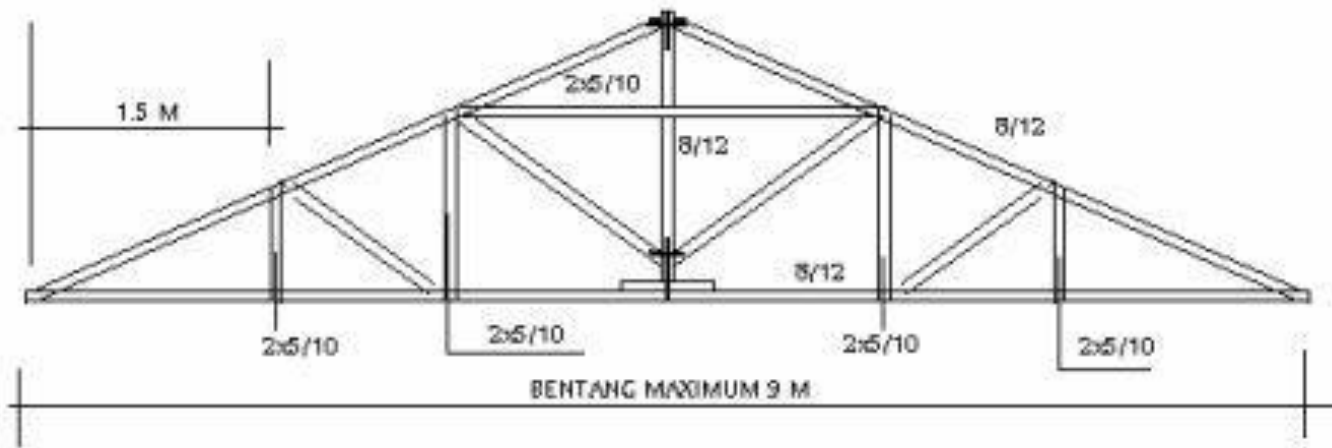
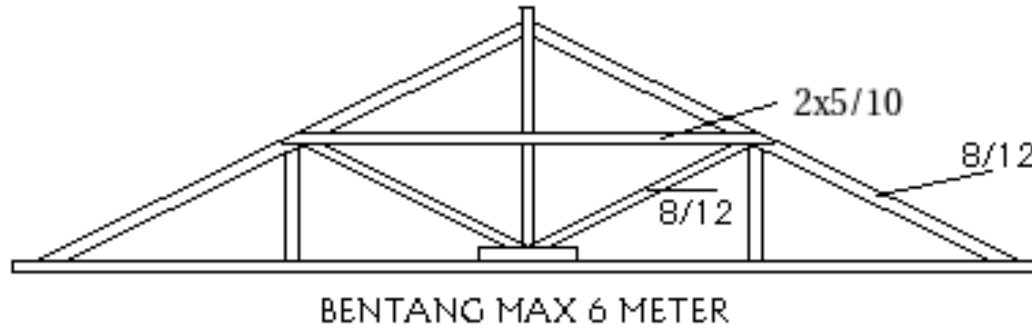


Kuda-Kuda Bentang 3-4 Meter

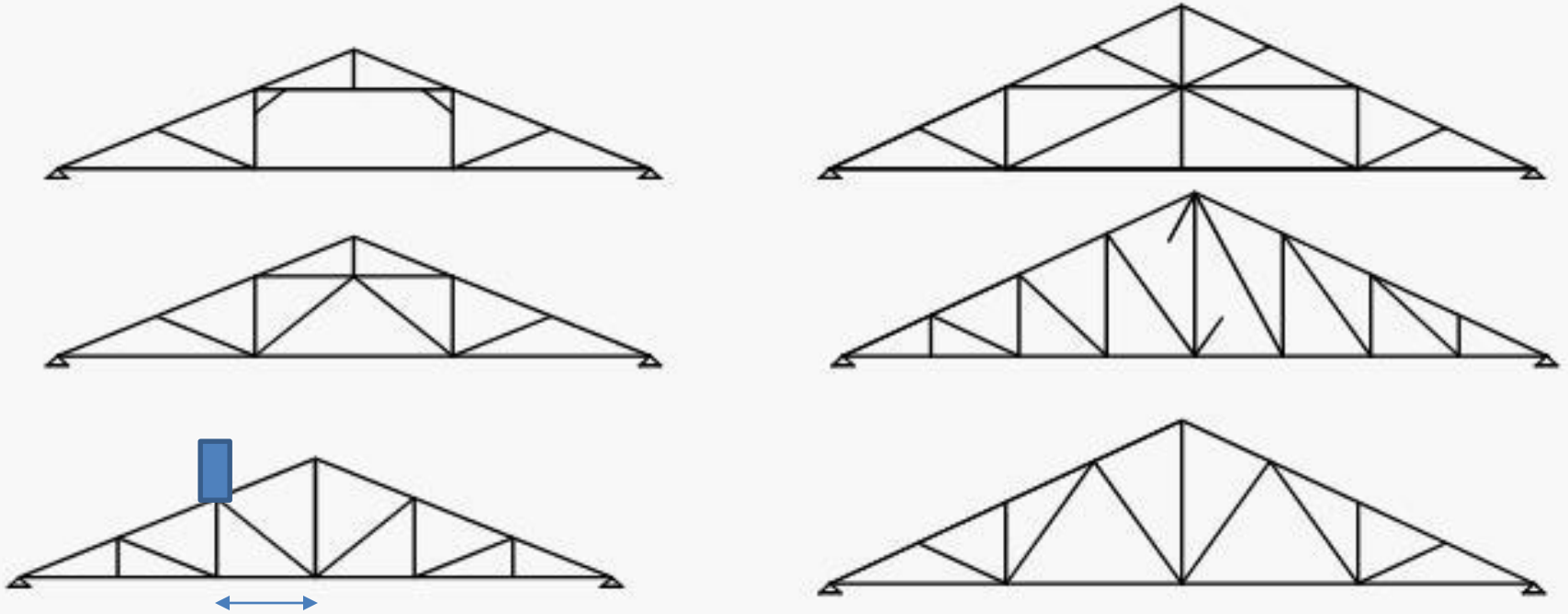


Kuda-Kuda Bentang 4-8 Meter

BENTUK KUDA-KUDA BERDASARKAN BENTANG

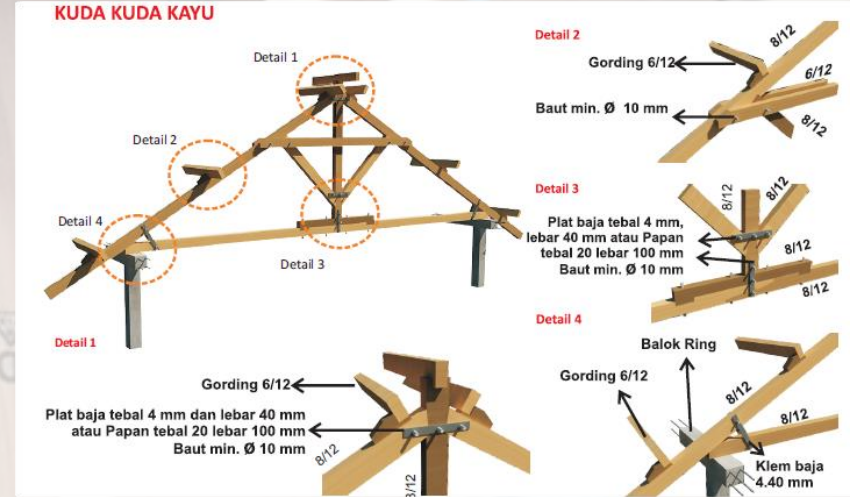


BENTUK KUDA-KUDA BERDASARKAN BENTANG

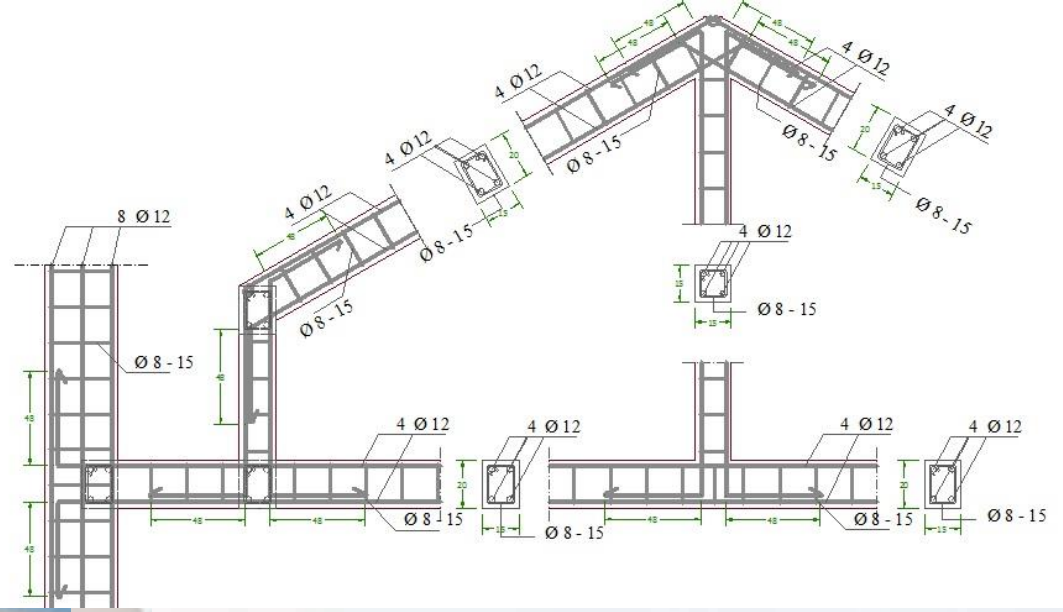


Kuda-Kuda Bentang 9-16 Meter

MACAM-MACAM KUDA-KUDA KUDA-KUDA KAYU



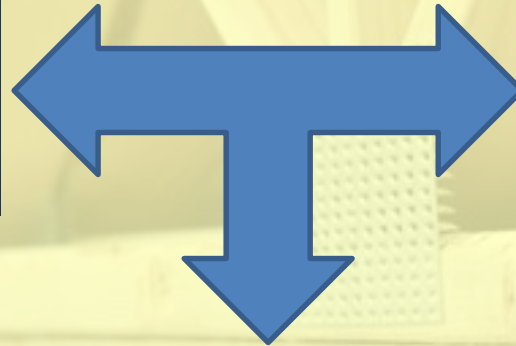
MACAM-MACAM KUDA-KUDA KUDA-KUDA BETON





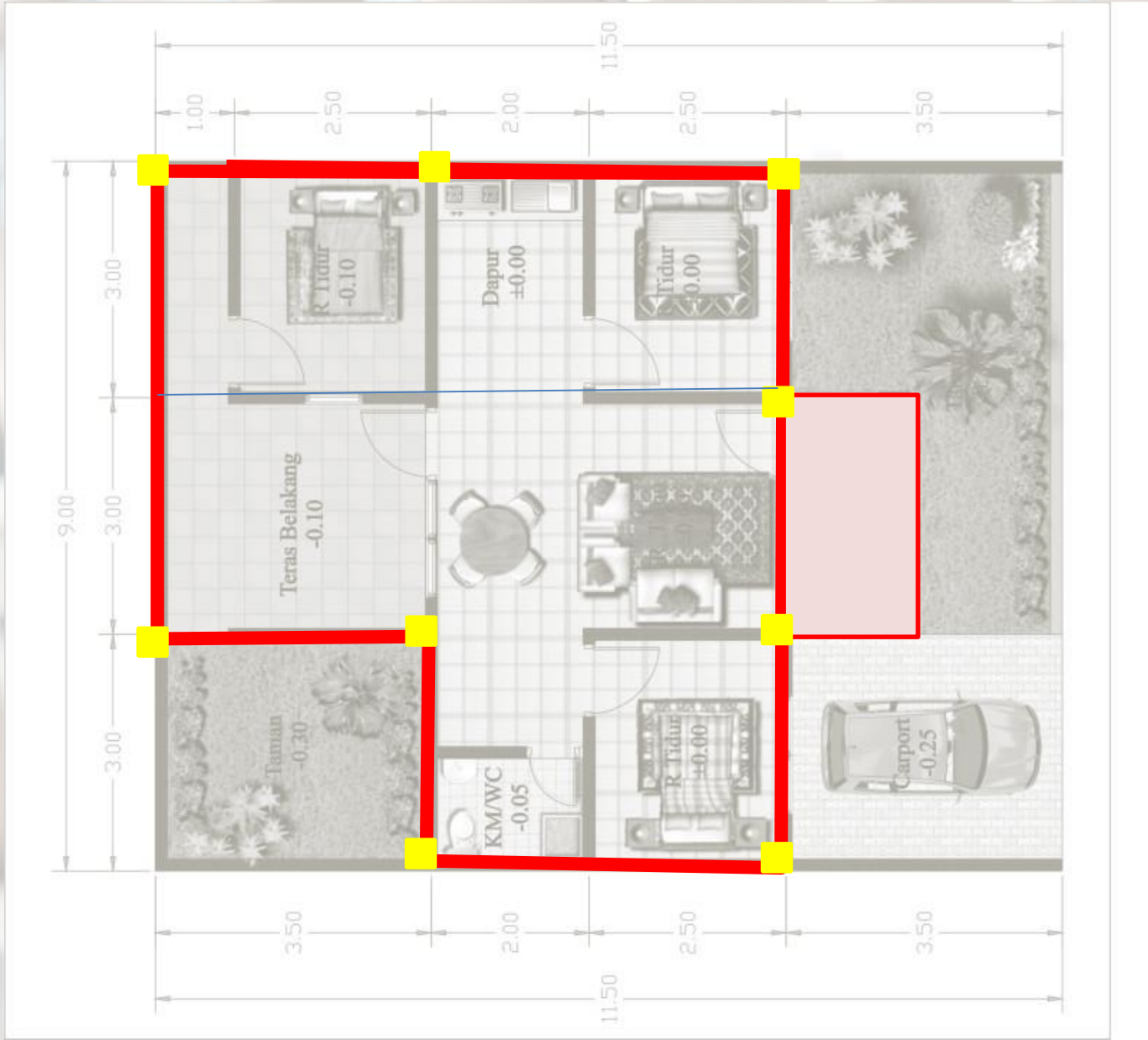
**BENTUK
ATAP**

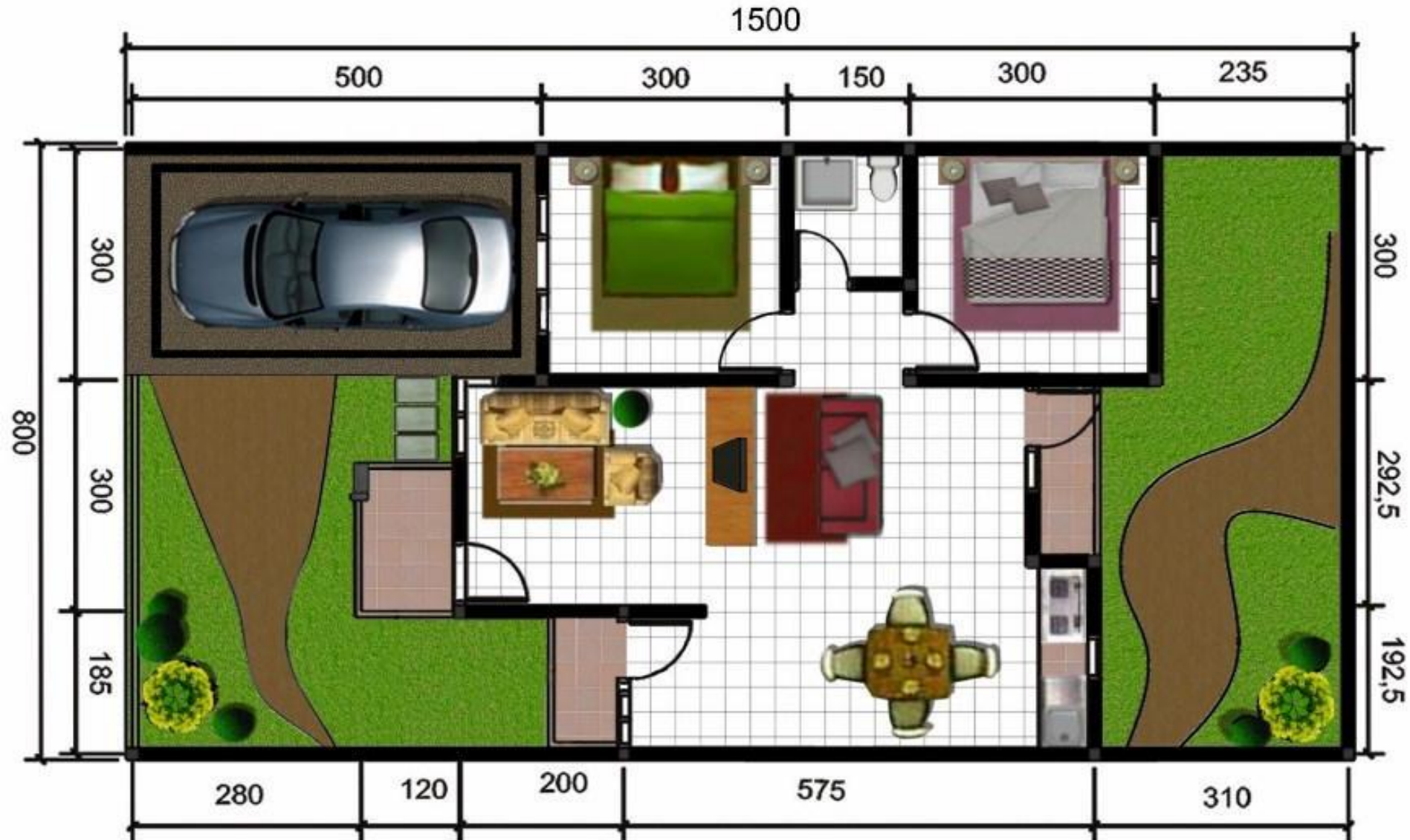
**GRID
STRUKTUR**



DESAIN STRUKTUR

ESTETIKA BANGUNAN





TUGAS MINGGU 5-6

DESAIN GRID STRUKTUR

DESAIN ATAP

- **BUATLAH DENAH BANGUNAN SEDERHANA UKURAN $\pm 100\text{m}^2$ (BUAT SEKREATIF MUNGKIN)**
- **BUATLAH RENCANA GRID KOLOM STRUKTURNYA (DISERTAI UKURAN SESUAI PERTEMUAN SEBELUMNYA)**
- **BUATLAH DESAIN OUTLINE RENCANA ATAPNYA**
- **BUATLAH RENCANA ATAP DISERTAI PERLETAKAN KUDA-KUDANYA.**
- **GAMBAR PADA KERTAS A3 SKALA 1:100 (GAMBAR LENGKAP DENGGA KETERANGAN DAN UKURAN)**
- **SCAN/FOTO GAMBAR TUGAS DAN KUMPULKAN MELALUI ELEARNING. GRID STRUKTUR MAKSIMAL 7 APRIL 2021 JAM 15.00WIB. RENCANA ATAP MAKSIMAL 10 APRIL 2021 JAM 15.00WIB**