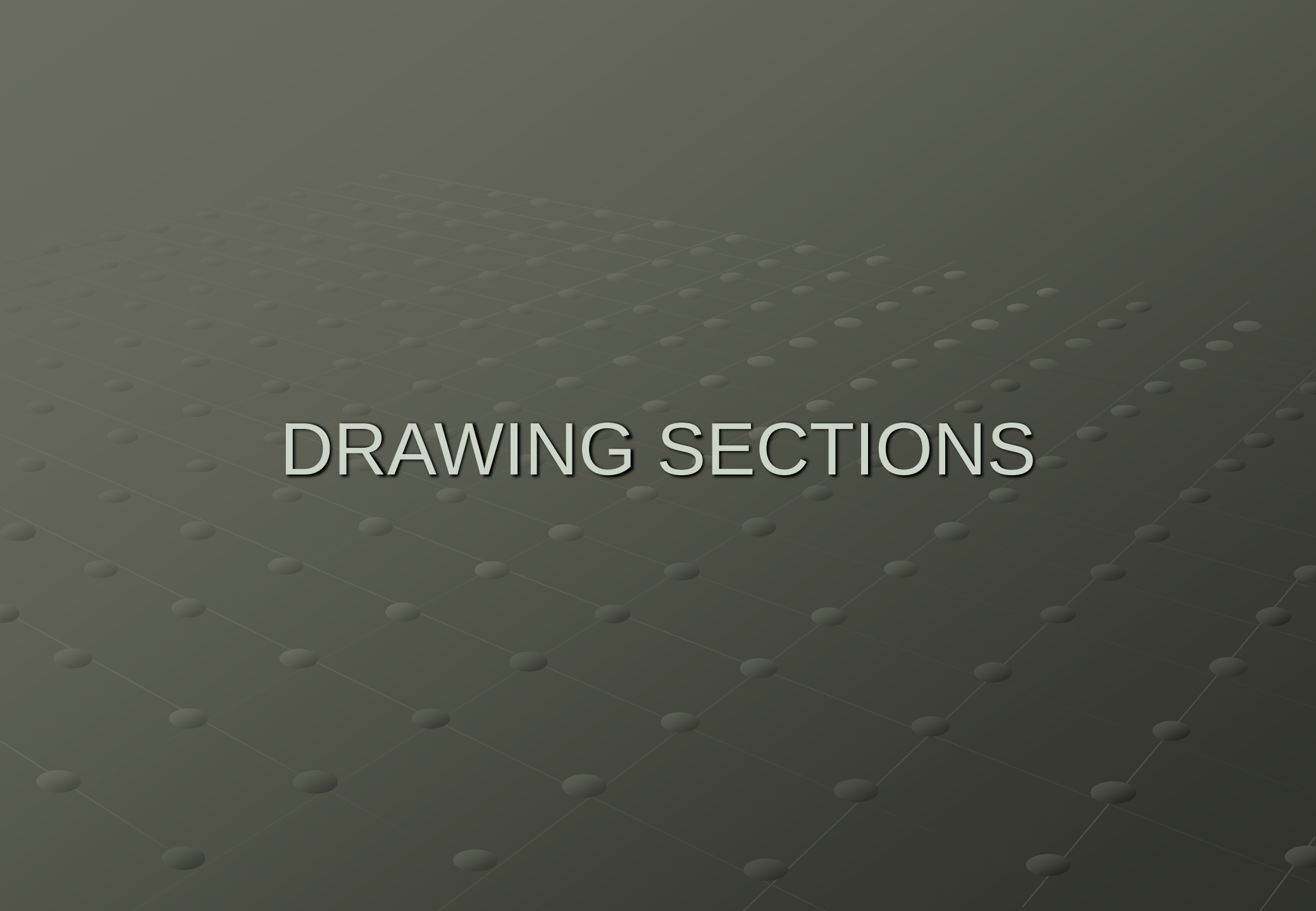


Construction Technology 3

Construction Sections

TECHNICAL

The background of the slide is a dark gray isometric grid. The grid lines are thin and light gray, creating a 3D perspective. At the intersections of the grid lines, there are small, dark gray, rounded rectangular dots. The text "DRAWING SECTIONS" is centered in the middle of the grid.

DRAWING SECTIONS

Work out basic planning grid related to Site Plan

- Draw site plan in 1:50 scale on A1 sheet
- Show adjacent buildings, site constraints.
- Choose a basic grid i.e. centre of column positions on plan
- Indicate dotted lines for grids
- Indicate a basic section line i.e. A-A
- Draw a basic shape to define the area of the building on plan

Turn paper to view of section line

- Overlay tracing paper to draw section
- Consider number of storeys required 5-8??
- Project lines from plan to form section vertical lines
- Choose floor to floor heights etc
- Indicate these by drawing in horizontal lines
- Include depth for basement if required
- Draw in as much detail as possible at this stage

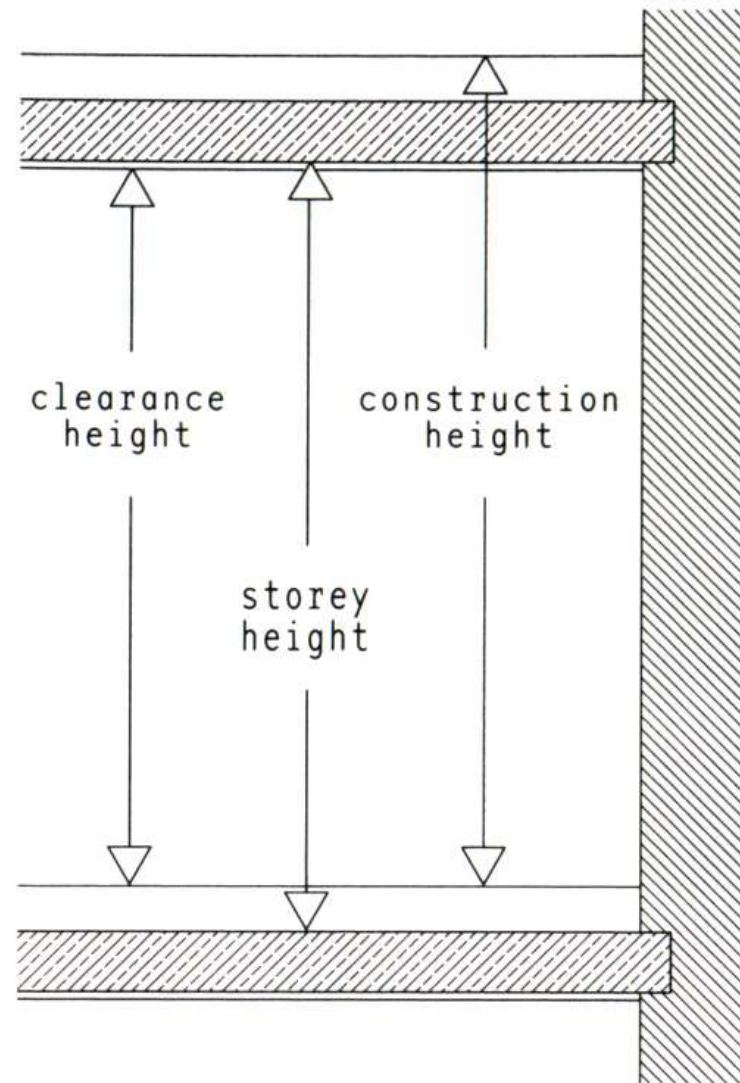
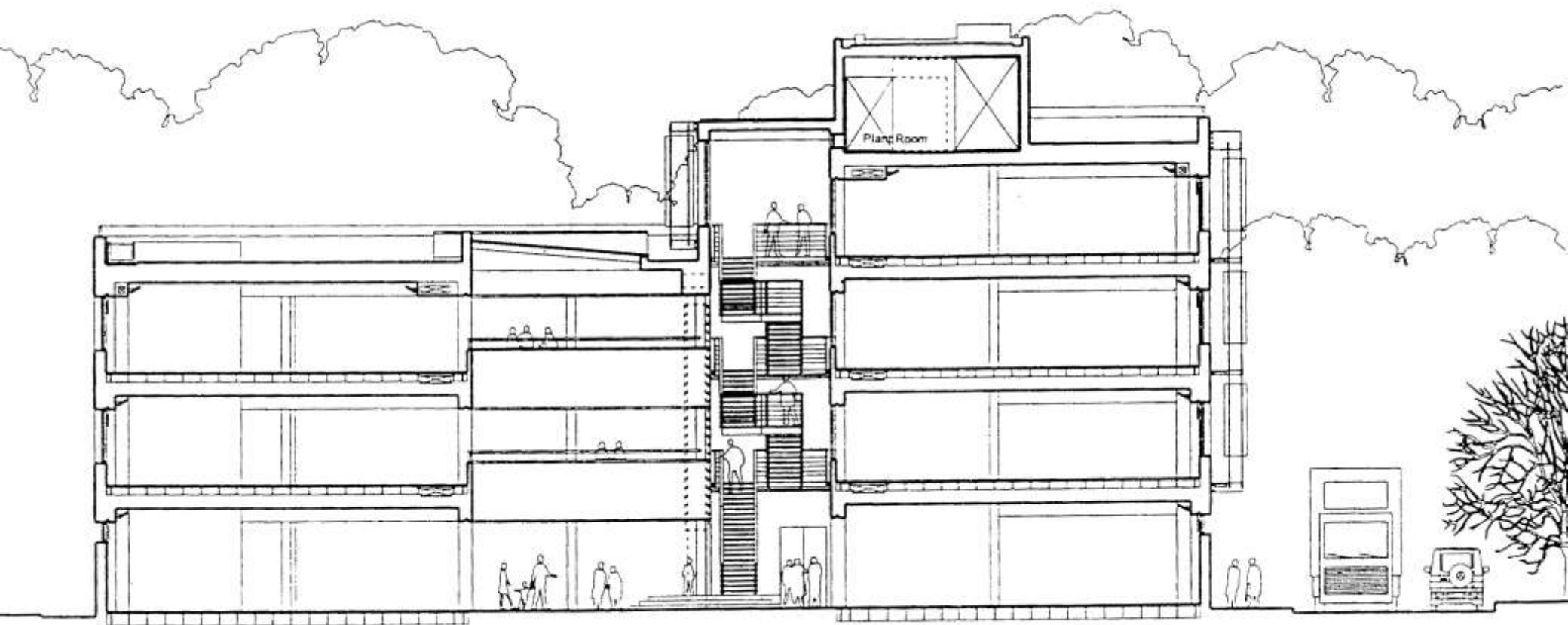
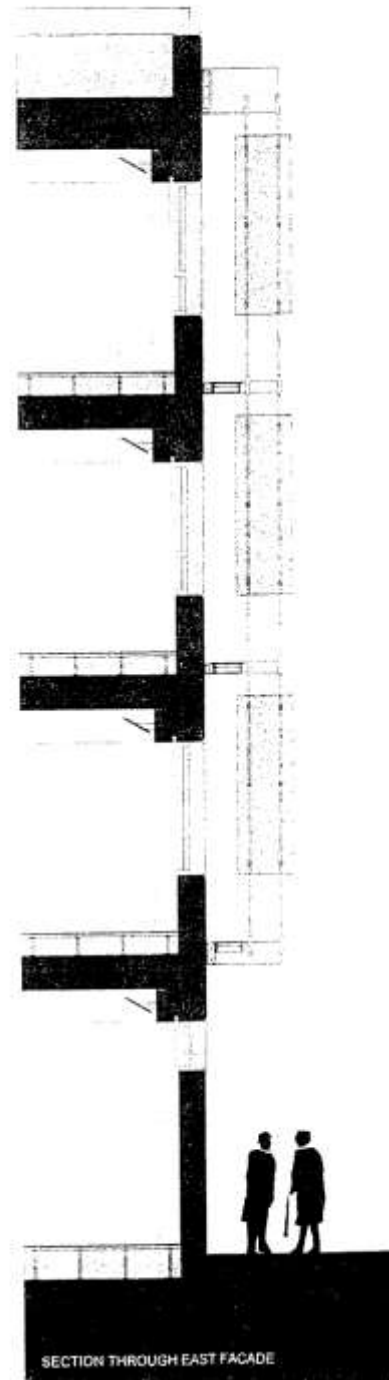
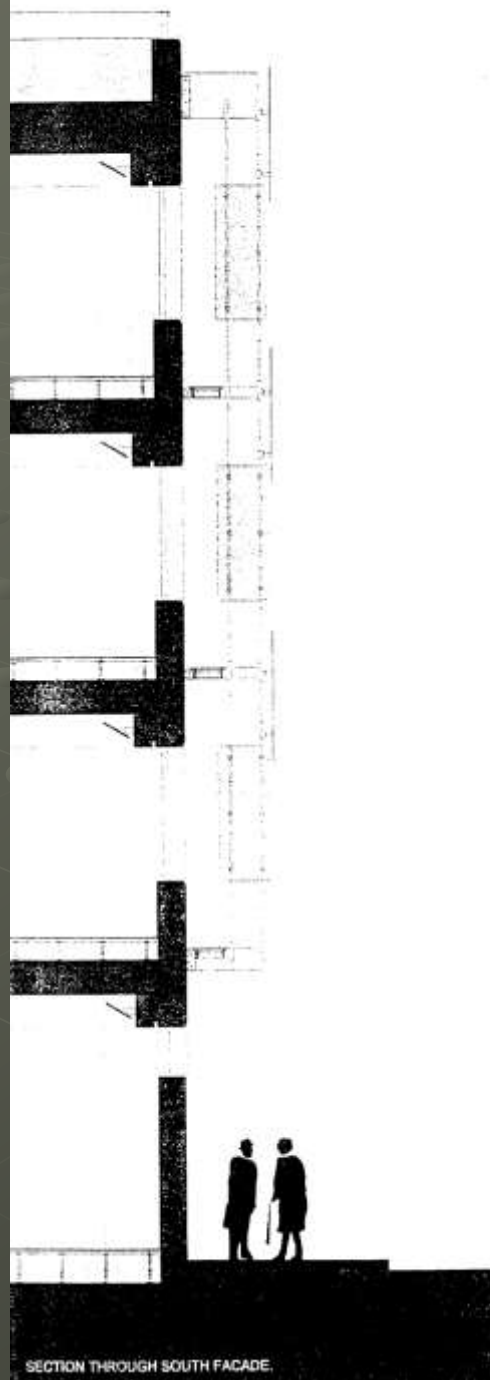


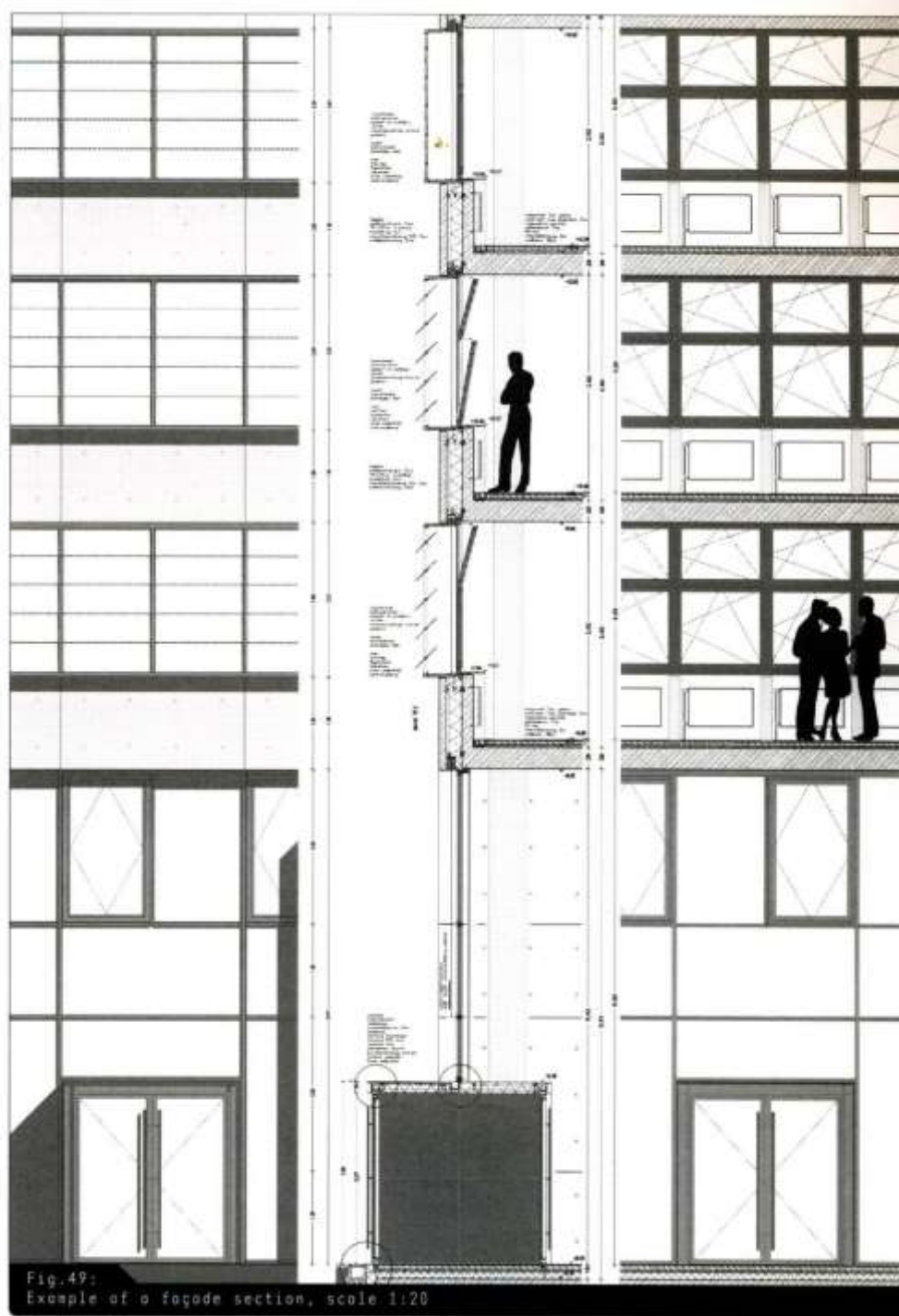
Fig.40:
Height systems in layers



Fill in the detail to both drawings

- Show floor thickness i.e. flat slab, composite etc
- Show structural zone
- Ceiling heights
- Raised floor if required
- Window cill and head heights
- Use overlays to change constraints/ develop sections





Cores

- Check sketch book for likely position of cores i.e. lift and stairs
- Draw basic information in outline on the 1:50 plan
- Indicate sizes of lift and stairs
- Consider floor to floor heights from the section to help size the stairs i.e. risers and goings
- Show wc/ stair/ lift – develop plans

