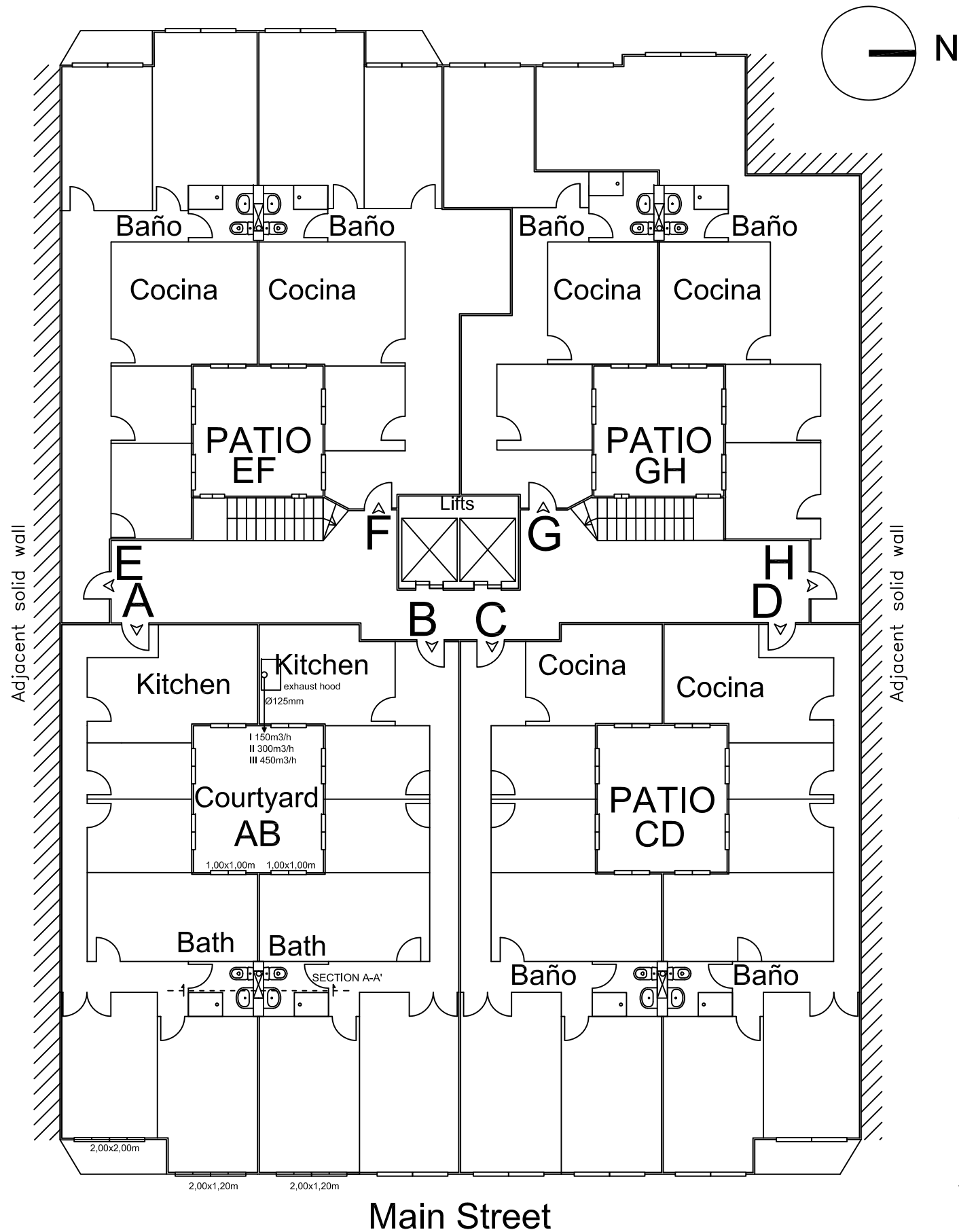


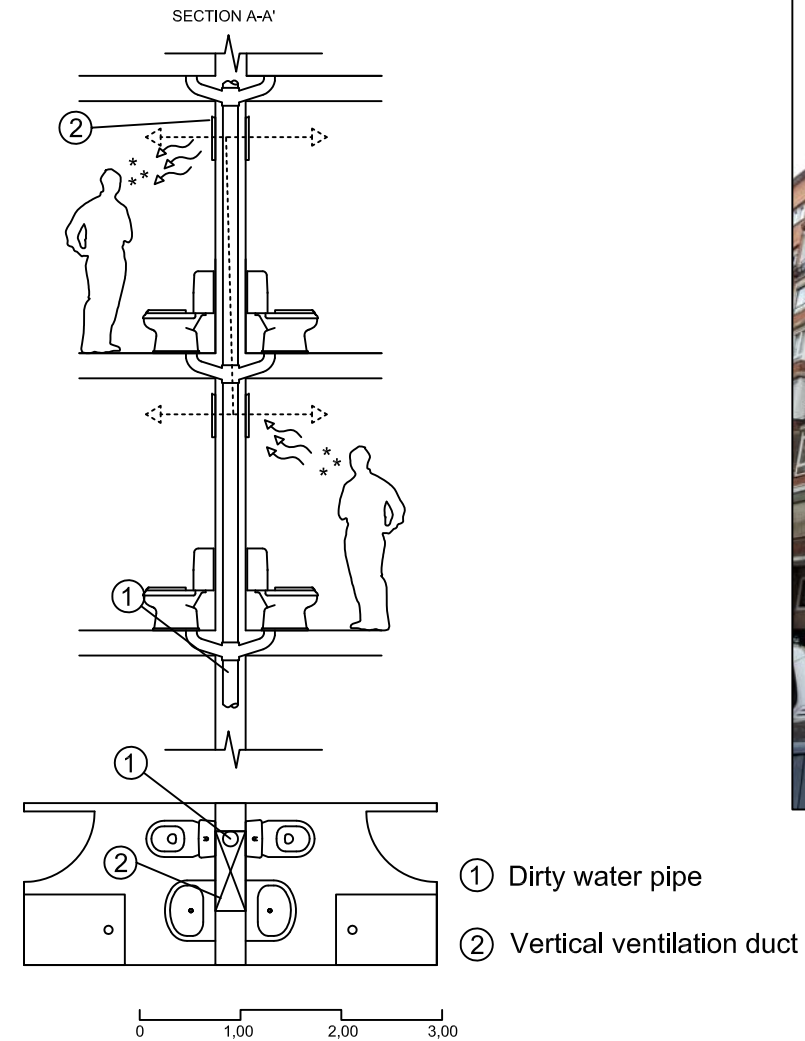
Building floor plan



0 1,00 2,00 3,00 4,00 5,00
A3 - E 1:150

SECTION A-A'

Configuration of bathrooms in apartments in the same courtyard



Characteristics of the bathrooms:

- Interior (no window).
- Natural ventilation duct (shunt) with draft problems (air return to the interior of the house).
- Bathrooms share ducts in each courtyard: fecal downspout and ventilation shunt.
- Bad odor problems in the bathrooms.
- 4 affected dwellings in the same courtyard (stacked).

Note:

Under certain circumstances there is air return to the interior of the dwelling: wind conditions, or negative pressure in the dwelling when connecting the kitchen fume extraction with windows closed (>150m³/h, equiv. to 1 renov. of air from the dwelling every 100 minutes). Tested in situ (see video).

Or small permanent air inflow due to temperature differences between dwellings (Supposed needs modeling).



Main Street

RESIDENCIAL BUILDING IN SANTANDER
BUILT YEAR 1969