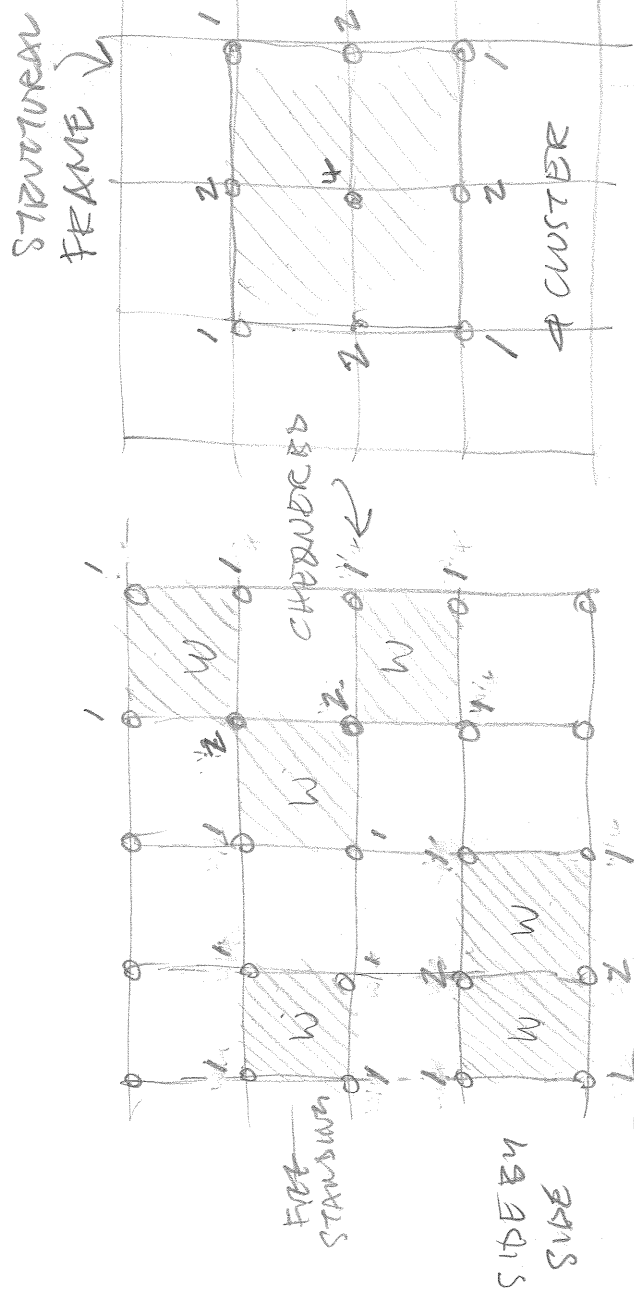
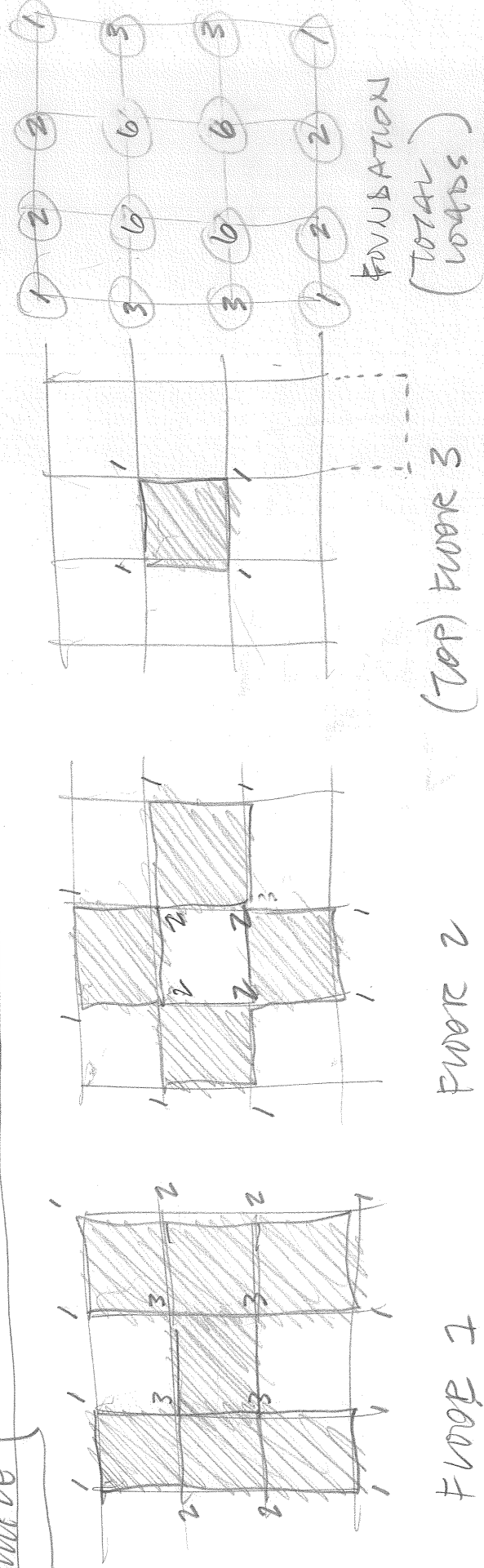


FOR SIMPLICITY DATA
 CUBE HABITATION MODEL
 HAS TOTAL WEIGHT OF
 4 UNITS - DISTRIBUTED SO
 THAT EACH OF ITS LOWER
 COLUMNS CARRIES 1 UNIT
 OF LOAD



EXAMPLE



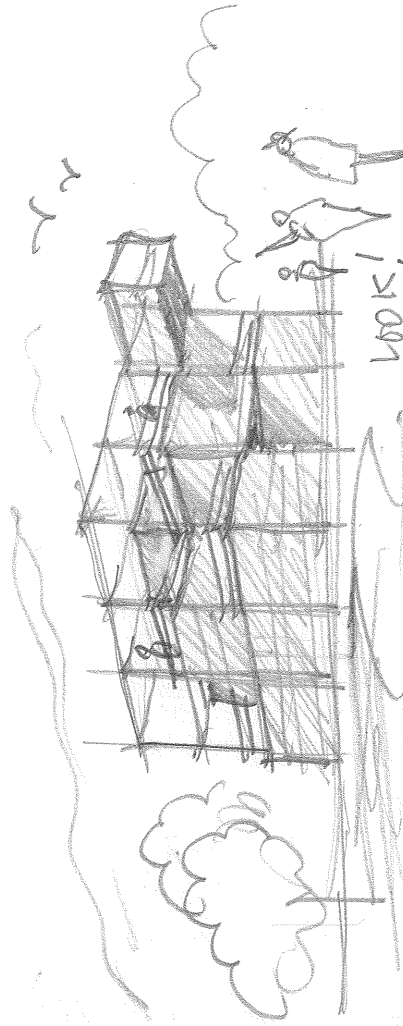
PROBLEM 1.
 WORKUP

OBSERVATIONS

- OUTER CORNER COLS SUPPORT WEIGHT OF JUST ONE CURB
- MOST CURBS STACKED IN CENTRE.
- MORE CURBS STACKED OVER THE MIDDLE EAST/WEST THAN NORTH/SOUTH.
- CENTRAL COLS SUPPORT 7 CORRIDORS EACH

PURBS COULD BE - (IN THE HABITAT 2 VERSION!)

- EACH HABITAT(2) MUST HAVE AT LEAST ONE EXTENDED WALK (WINDOWS)
- HAVE THE ROOF OF A CURB BELOW AS A BALCONY/DECK (IF NOT AT GROUND LEVEL)



SKETCH OF PROBLEM 2 FROM THE SOUTH WEST

LOOK!
THE STAKEHOLDERS ARE CANTILEVERED CURBS!!!

GIVEN NUMBER OF FLOORS?
TOTAL NUMBER OF CURBS?
MAX NUMBER OF CURBS/FLOOR?
EACH FLOOR MUST CONTAIN AT LEAST ONE (X) CURB(S)

OTHER PROBLEMS

FIND A CURB CONFIGURATION WHERE ALL COLUMNS IN CENTRE SQUARE ARE \leq 26 UNITS OF LOAD WHERE FUTURE MOVIE COLUMNS ARE EXACTLY $\frac{1}{2}$ AS LOADED AS CENTRAL COLUMNS
(NOTE = OUTSIDE CORNER COLUMNS ARE GENERALLY MINIMUM LOAD EXCEPT WHEN AN CURB ARE ON CORNER LOCATIONS - OF WE HAVE CANTILEVERED CURBS =)