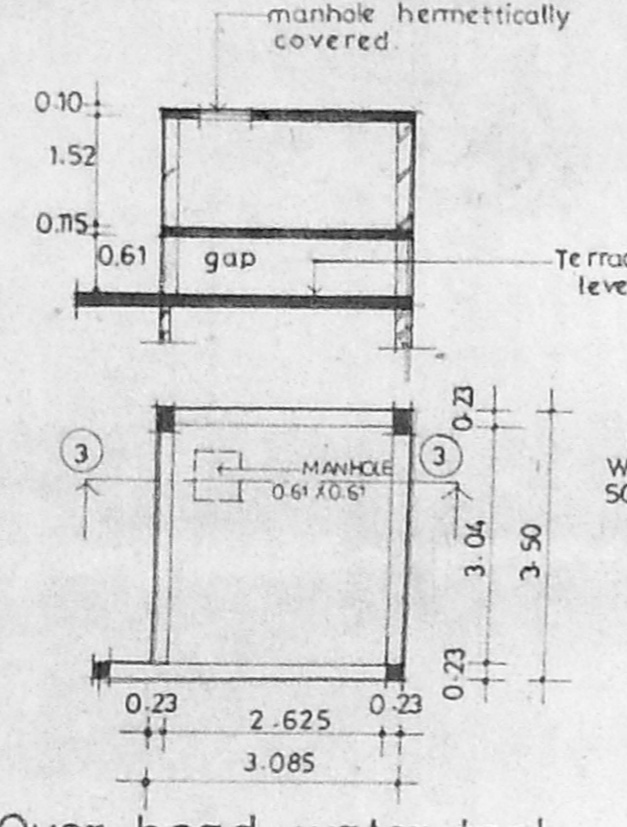
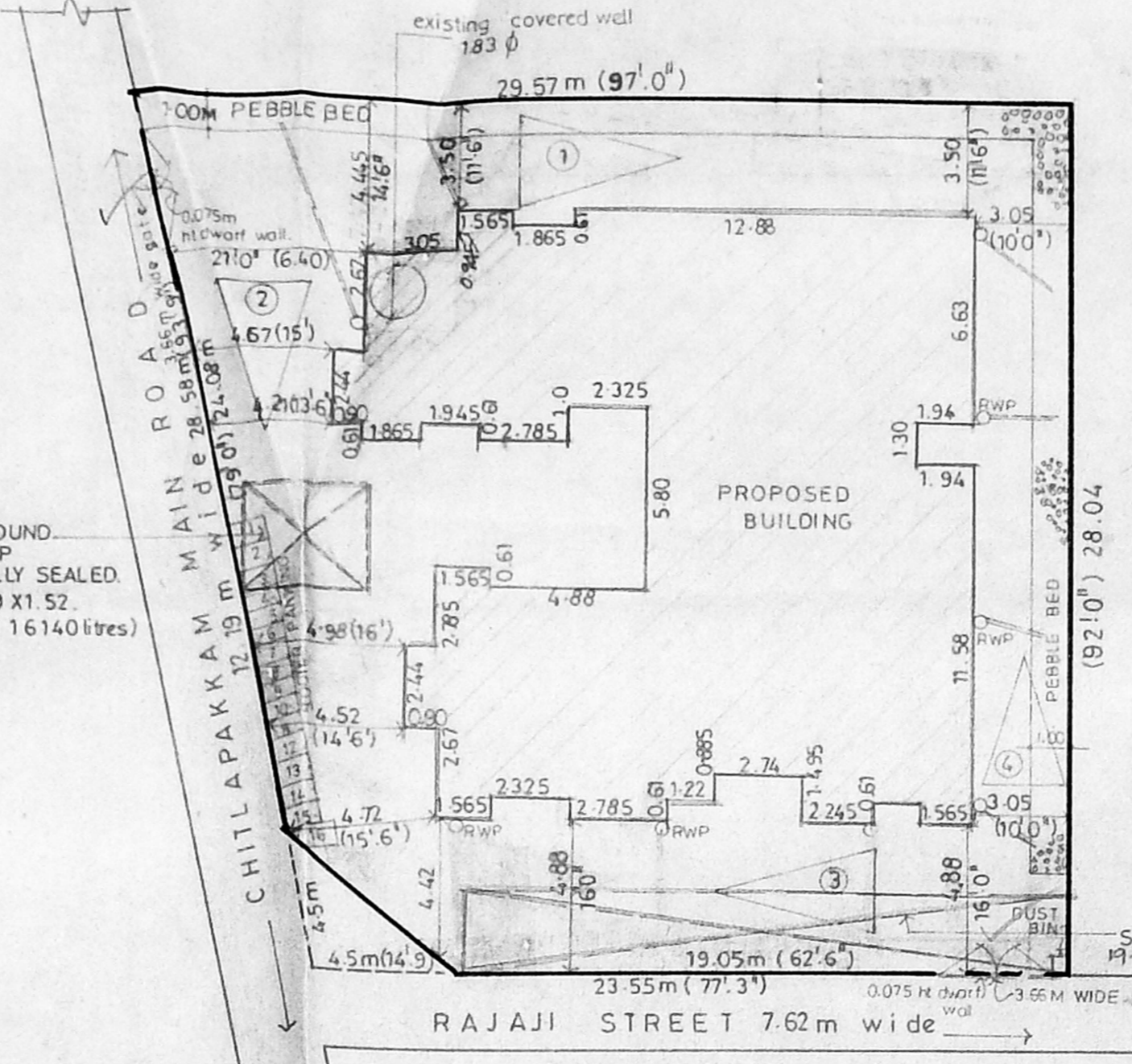


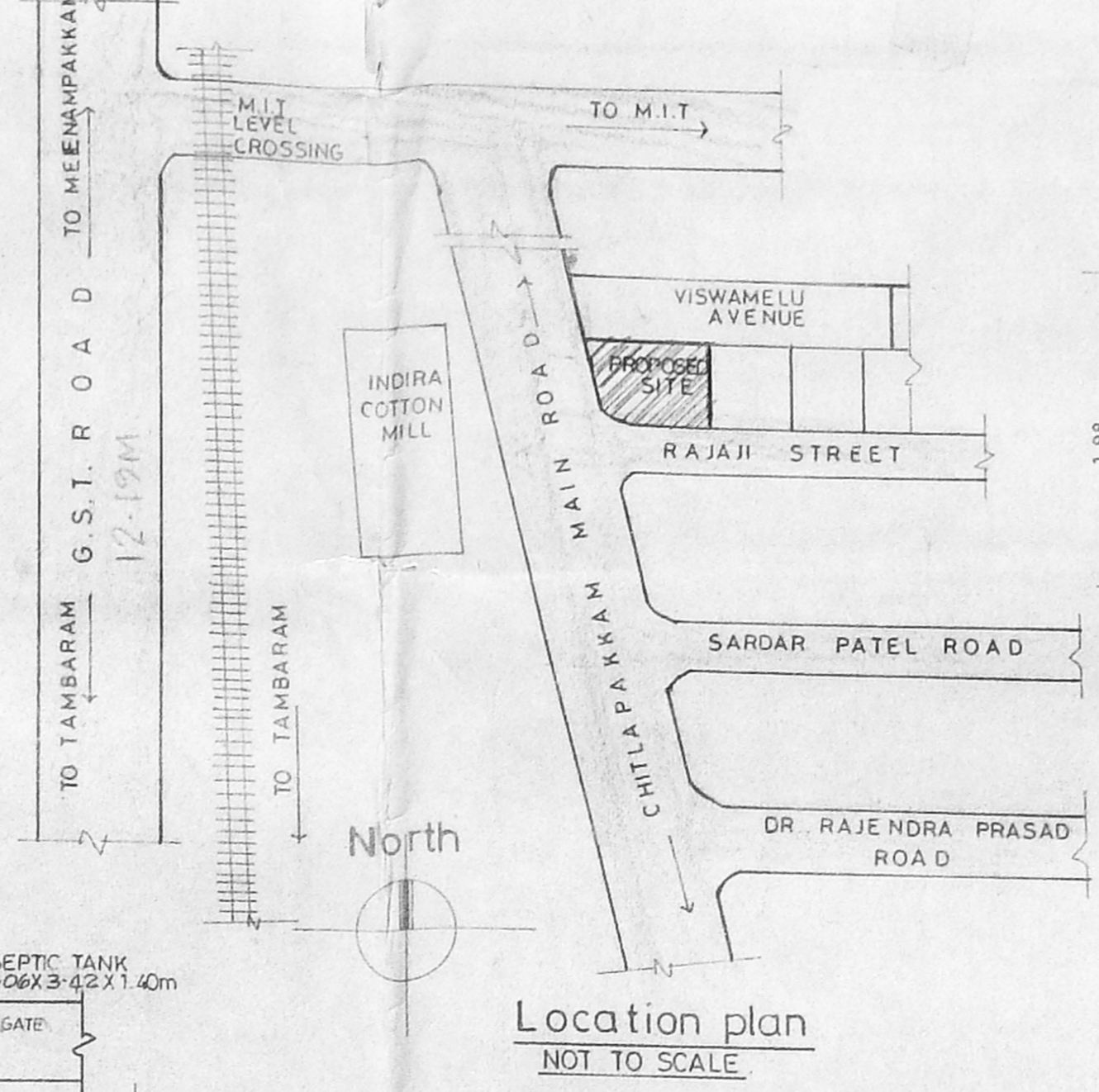
Gate and compound wall detail.



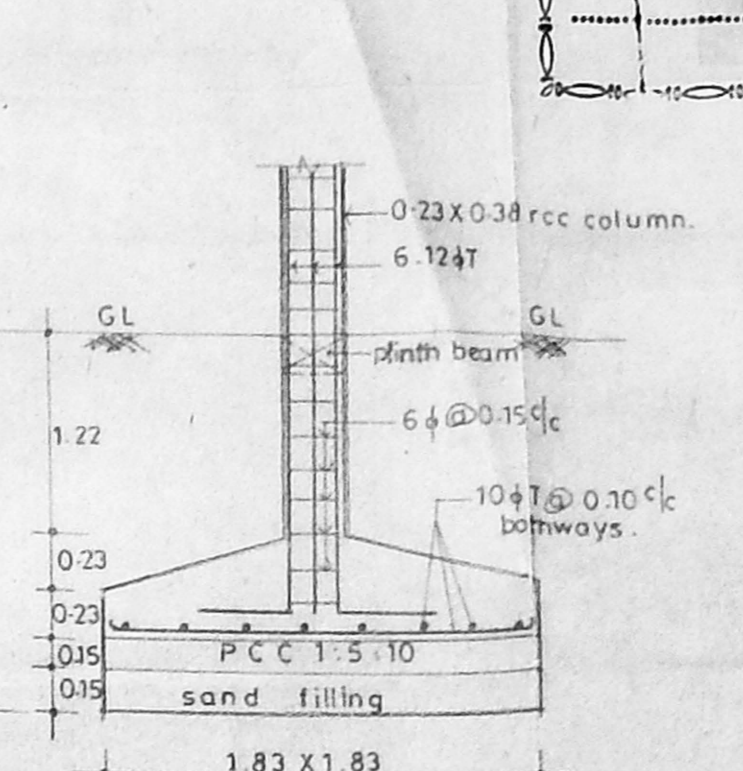
Over head water tank detail.



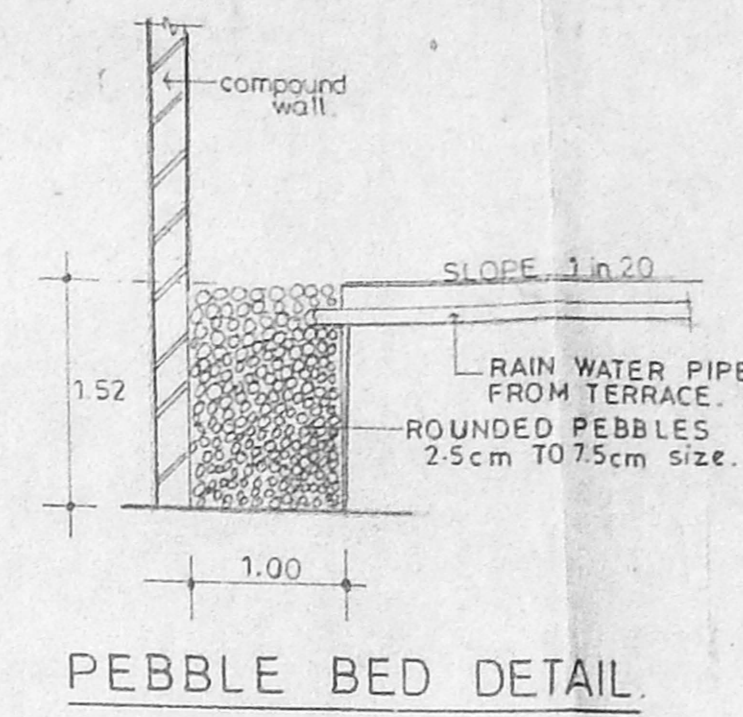
Site plan. SCALE 1:200



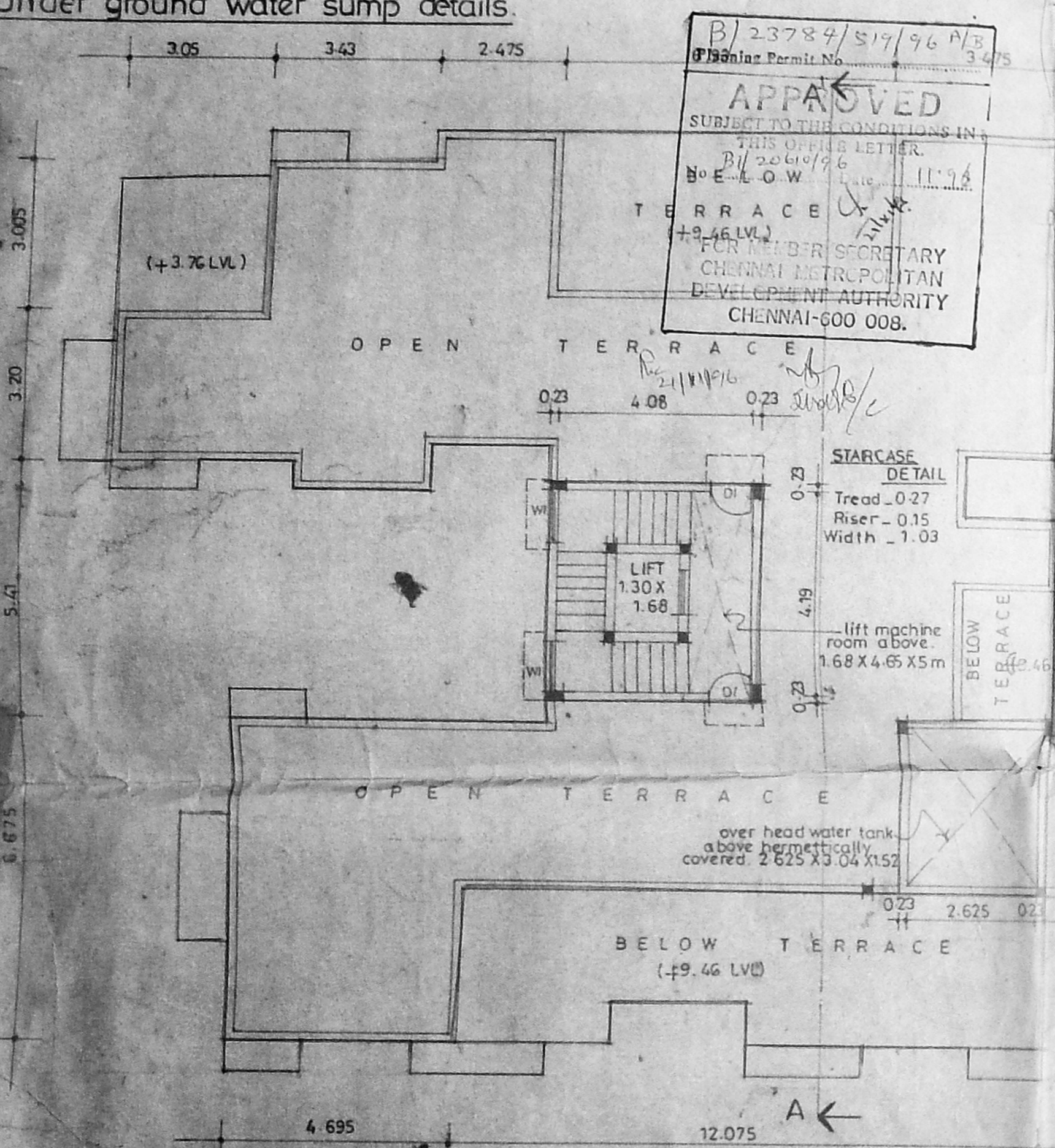
Location plan NOT TO SCALE



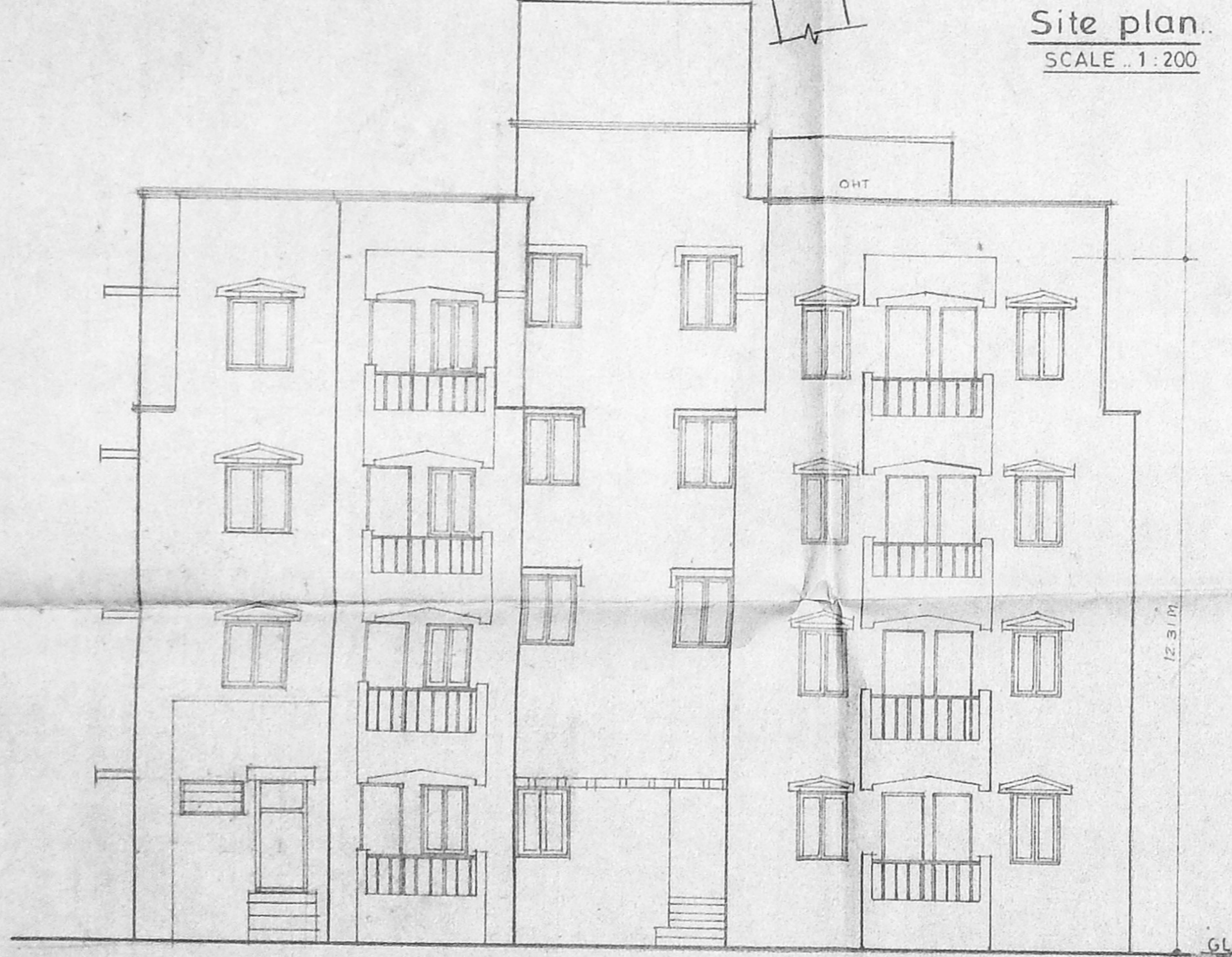
Column foundation detail



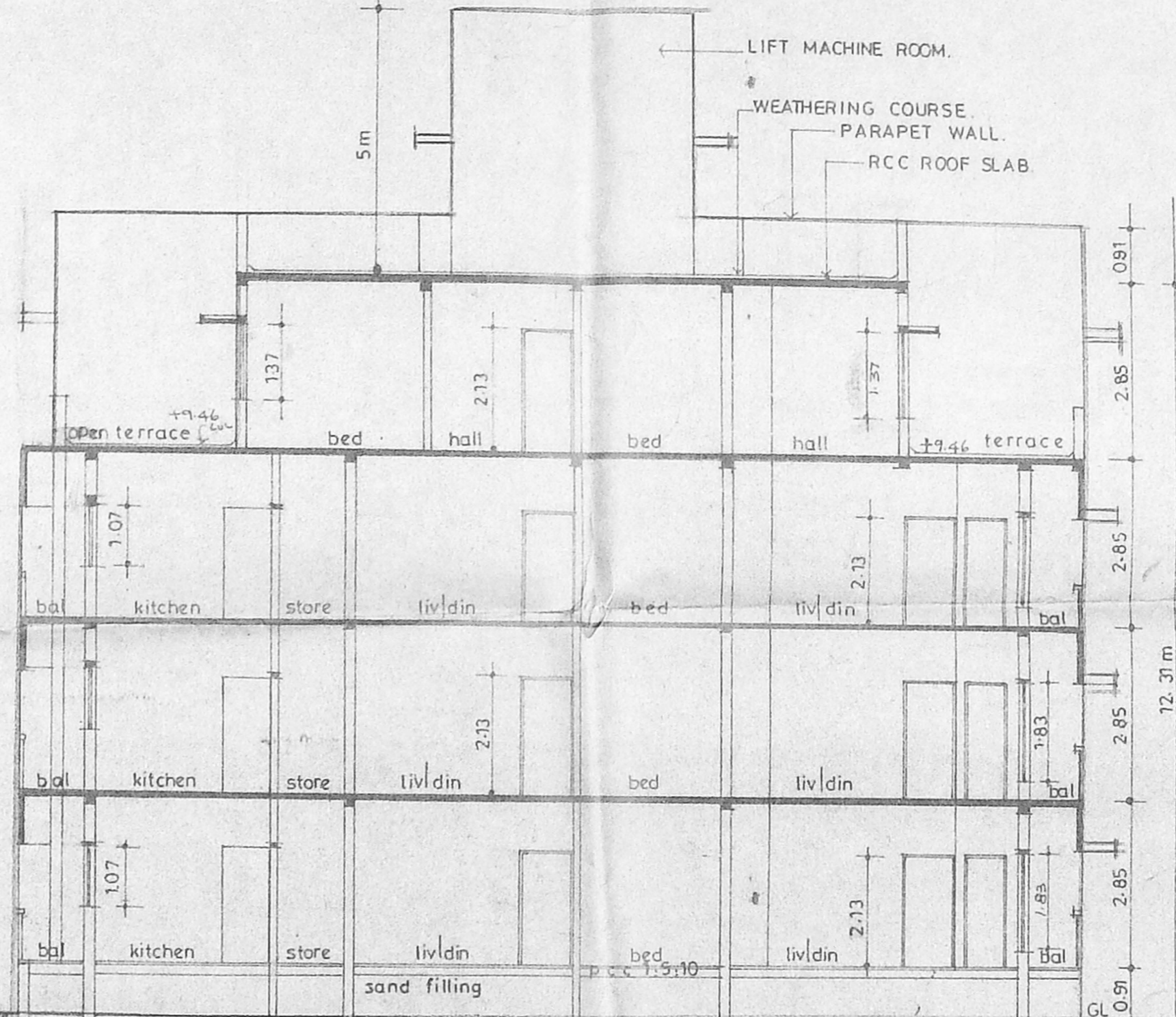
PEBBLE BED DETAIL



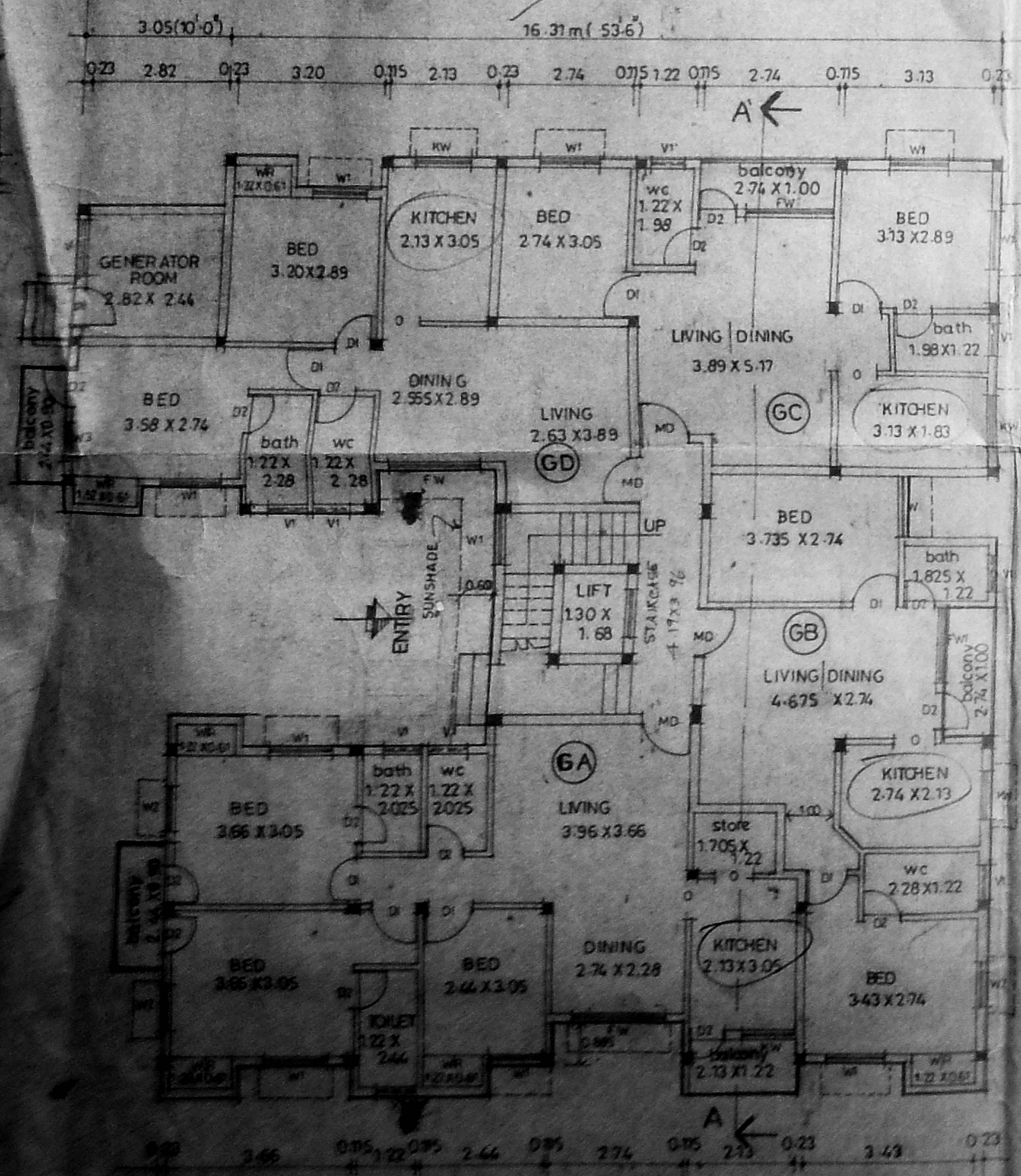
Terrace floor plan.



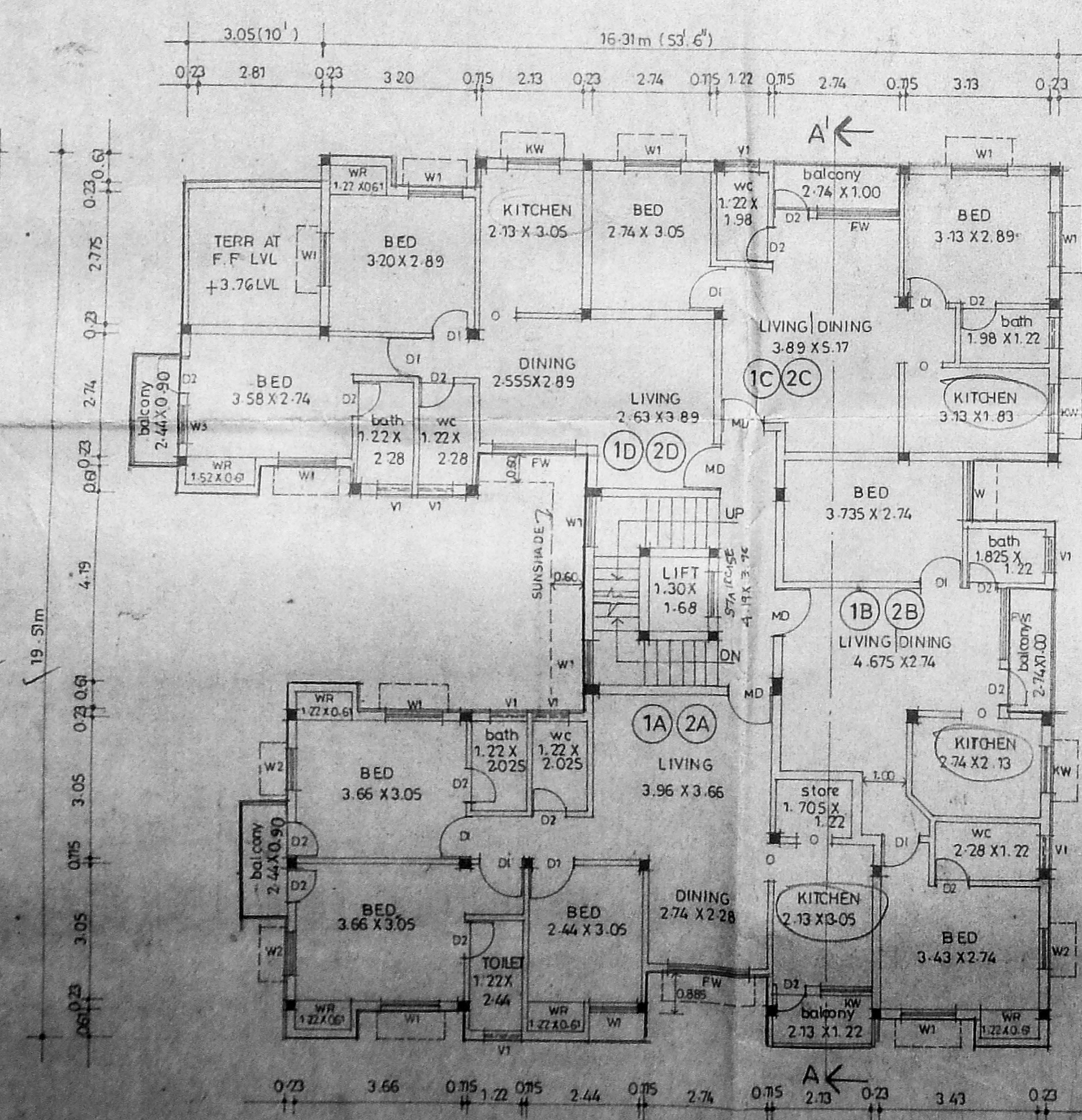
Front elevation.



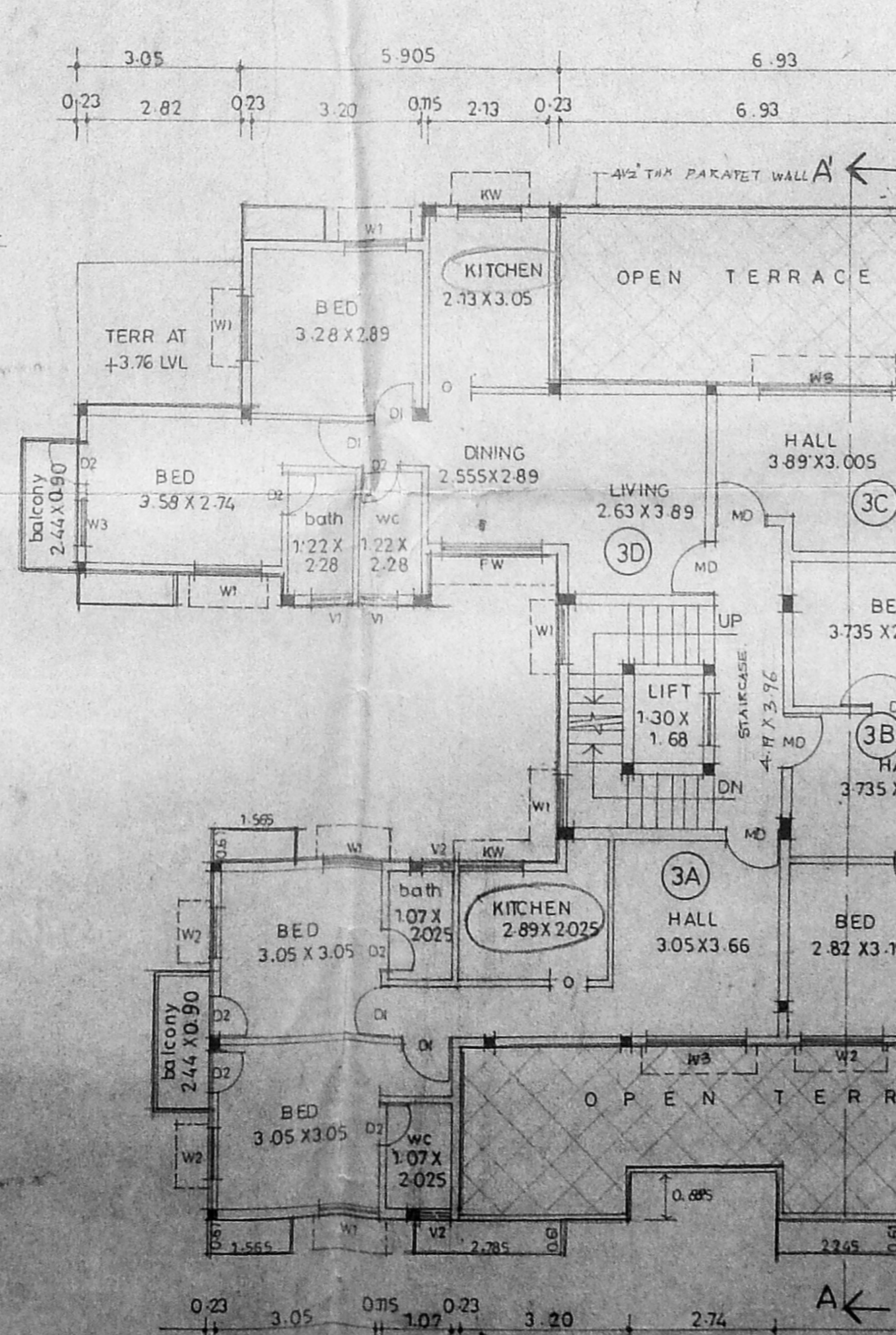
Section A-A



Ground floor plan.



First and Second floor plan.



Third floor plan.

PROPOSED RESIDENTIAL FLATS IN DOOR NO. 33, CHITLAPAKKAM MAIN ROAD, CHROMEPET, MADRAS - 600044. S.NO - 5/12. NO.103 ASTHINAPURAM VILLAGE, PALLAVARAM MUNICIPALITY.

- LEGEND.
- MD 1.00 X 2.13 MAIN DOOR
  - DI 0.91 X 2.13 DOOR
  - D2 0.76 X 2.13 DOOR
  - FW 1.83 X 1.98 FRENCH WINDOW
  - FW 1.52 X 1.98 DOOR
  - W 1.30 X 1.37 WINDOW
  - W1 1.52 X 1.37 DOOR
  - W2 1.22 X 1.37 DOOR
  - KW 1.22 X 0.71 KITCHEN WINDOW
  - V1 0.91 X 0.67 VENTILATOR
  - O 0.76 X 2.13 OPENING
  - W3 1.83 X 1.37 WINDOW

AREA STATEMENT.

PLOT AREA - 746.74 sq.m (or) 8035.00 sq.ft

GROUND FLOOR AREA

FLAT 1A AREA	- 91.29 m <sup>2</sup>
1B	- 61.34
1C	- 58.62
1D	- 35.41
COMMON AREA	- 52.68
TOTAL	- 295.54 m <sup>2</sup>

FIRST FLOOR AREA

FLAT 2A AREA	- 91.29 m <sup>2</sup>
2B	- 61.34
2C	- 58.62
2D	- 35.41
COMMON AREA	- 52.68
TOTAL	- 295.54 m <sup>2</sup>

THIRD FLOOR AREA

FLAT 3A AREA	- 56.92 m <sup>2</sup>
3B	- 52.76
3C	- 35.41
3D	- 56.25
COMMON AREA	- 21.66
TOTAL	- 223.00 m <sup>2</sup>

TOTAL BUILT UP AREA - 1109.62 m<sup>2</sup>  
F.S.I - 1.48 times  
PLOT COVERAGE - 39.5%  
SERVICE AREA IN GROUND FLOOR - 8.14 m<sup>2</sup>

ALL DIMENSIONS ARE IN METRES.  
SCALE - 1:100 DATE - 13.07.96

NOTE

PROPOSED...

CMDA APP. NO. B/20610/96

C.No. B/20610/96

Asst. P.A. R. 15/11/96

Scrutiny P.A. R. 15/11/96

AP. R. 15/11/96

SIGNATURE OF OWNER.

P.RAVI ARCHITECTS PVT LTD  
P. RAVI B. ARCH. AIA. AID. FIRA. FIV.  
REGD. ARCHITECT  
22, SECOND CROSS STREET  
ELLAIAMMAN COLONY, MADRAS - 86.  
PHONE - 453753.

# WASTE WATER DISPOSAL & SEWAGE TREATMENT PLAT

## CALCULATION

NO OF DWELLING UNITS : 16 NOS  
 NO USERS : 4 + 72 + 24  
 (Single bed room) (Double bed room) (3 Bedrooms)  
 TOTAL : 100 NOS  
 NO OF UNITS PER DWELLING : 1 UNIT  
 SINGLE BED ROOM : 1 UNIT  
 NO OF FLAT : 1  
 DOUBLE BED ROOM : 2 UNITS  
 NO OF FLATS : 12  
 3 BED ROOM : 3 UNITS  
 NO OF FLATS : 3  
 AS PER GOVT OF INDIA MANUAL ADOPTING  
 A PEAK FACTOR OF 6  
 PEAK DISCHARGE :  $6 \times 1 \times 1 + 6 \times 2 \times 12 + 6 \times 3 \times 3$

$= 6 + 144 + 54 = 204 \text{ LITRES / MINUTE}$   
 RATIO ASSUMED 1:3 CO.EFF 0.92  
 SURFACE AREA OF SEPTIC TANK REQUIRED =  $\frac{204 \times 0.92}{10}$   
 $= 18.768 \text{ M}^2 \text{ SAY } 19.0 \text{ M}^2$   
 PROVIDED SIZE : 7.6 X 2.5 M.

**(B) SBC No**  
 File No: B/20610/96/1  
 Scrutiny: P. A.  
 Part I  
 Part II  
 A.P. D.P.

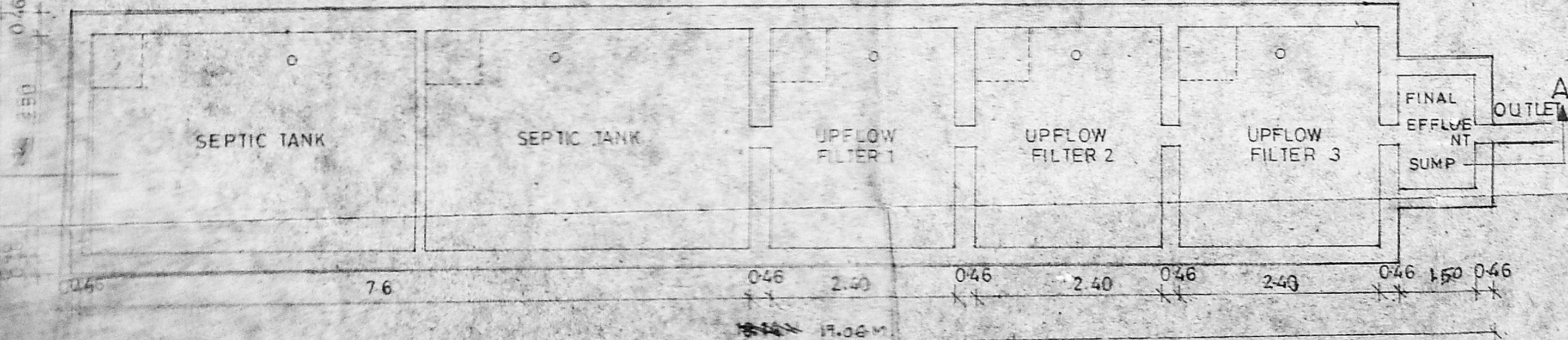
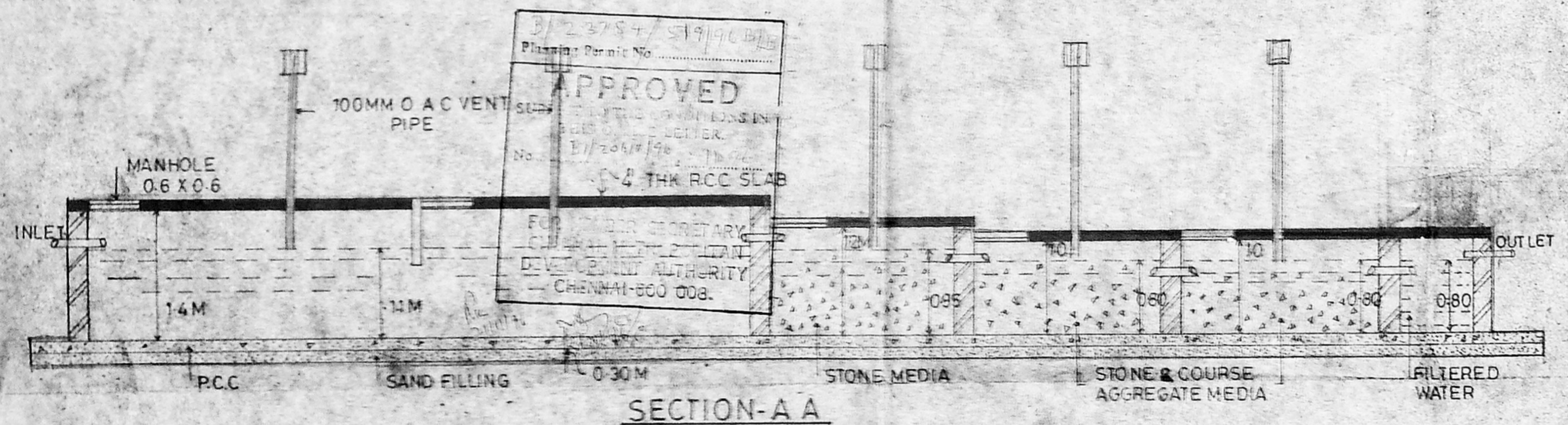
LIQUID DEPTH (Calculation for one tank)  
 VOLUME OF SEDIMENTATION =  $19 \times 0.30 = 5.7 \text{ M}^3$   
 VOLUME OF SLUDGE STORAGE =  $100 \times 0.0002 \times 36.50 = 0.73 \text{ M}^3$   
 VOLUME OF DIGESTION =  $100 \times 0.032 = 3.20 \text{ M}^3$   
 TOTAL =  $9.63 \text{ M}^3$   
 LIQUID DEPTH =  $\frac{9.63}{100} = 0.096 \text{ M}$   
 INLET PIPES INVERT LVL ASSUMING A GRADIENT OF 1 IN 80 STARTING FROM FIRST CHAMBER = 0.61 M  
 TOTAL LIQUID DEPTH =  $0.096 + 0.61 = 0.706$   
 PROVIDED LIQUID DEPTH = 1.1 M  
 SIZE OF TANK = 7.6 X 2.5 X 1.1 M

**UPFLOW FILTERS**  
 NO OF USERS = 100 PERSONS  
 VOLUME OF LIQUID =  $100 \times 0.045 = 4.5 \text{ M}^3$   
 DEPTH 1:1 0.3 0.80 M  
**AREA OF FILTER**  
 $= \frac{4.5}{0.80} = 5.625 \text{ M}^2 \text{ SAY } 6 \text{ M}^2$   
 OVER ALL SIZE = 2.4 X 2.5 X 1.1 M  
 UP FLOW FILTER 1 = 2.4 X 2.5 X 0.95 M  
 UPFLOW FILTER 2 = 2.4 X 2.5 X 0.80 M

**CMDA (B) / PP No. 1**  
 C. No. B/20610/96  
 13st  
 Scrutiny P. A.  
 P. A. 18/11/96  
 A.P. D.P.

S. NO	NAME	SIZE (For one tank)
1	SEPTIC TANK	7.6 X 2.5 X 1.1 M
2	UPFLOW FILTER 1	2.4 X 2.5 X 0.95 M
3	UPFLOW FILTER 2	2.4 X 2.5 X 0.80 M

PROPOSED RESIDENTIAL FLATS  
 IN DOOR NO. 33,  
 CHITLAPAKKAM MAIN ROAD  
 CHROME PET, MADRAS-44  
 S.NO. 5/12.  
 NO. 103, ASTHINAPURAM VILLAGE,  
 PALLAVARAM MUNICIPALITY.



**PLAN OF UPFLOW TANK**

*S. Ravi*  
 Sridhar  
 SIGNATURE OF OWNER

*S. Ravi*  
**P. RAVI** B Arch, AIA, AID, MCA, FIRA, AAY  
 LICENSED SURVEYOR CLASS I No. R.A. 33  
 CORPORATION OF MADRAS  
 22, ELLAIAMMAN COLONY, MADRAS-600 006

**PRAVI ARCHITECTS PVT LTD**  
 PRAVI B ARCH, AIA, AID, FIRA, FIV.  
 REGD. ARCHITECT.  
 22, SECOND CROSS STREET,  
 ELLAIAMMAN COLONY, MADRAS-86  
 PHONE 453759.