

**SHEET - 2 OF 2**  
**PLAN SHOWING THE PROPOSED CONSTRUCTION OF PROFESSIONAL CONSULTING OFFICE CUM RESIDENTIAL BUILDING AT STILT FLOOR +4 FLOORS +5th FLOOR Part AT OLD S.NO: 294/2 NEW S.NO:294/2A2, OF AYANAMBAKKAM VILLAGE, CHENNAI, WITHIN THE LIMIT OF THIRUVERKADU MPTY.**

- SPECIFICATIONS**
1. R.C.C COLUMN, FOOTING OR PILES IN FOUNDATION.
  2. COLUMNS ARE CONNECTED BY PLINTH BEAMS.
  3. MOSAIC FLOORING / SPARTAX FLOORING.
  4. BRICK WORK IN BASEMENT AND SUPER STRUCTURE IN C.M-15.
  5. WALLS ARE PLASTERED BY CEMENT PLASTER.
  6. JOINERY WORK IN TEAK AND COUNTRY WOOD.
  7. LINTEL OVER OPENING.
  8. ROOF COVERED BY R.C.C SLAB.
  9. ALL R.C.C WORK IN CEMENT CONCRETE M-25.
  10. WEATHERING COURSE LAID WITH PROPER SLOPE OVER R.C.C SLAB.

**JOINERY DETAIL**

RS	Rolling shutter	3.05 x 2.13
D1	Door	0.91 x 2.13
D2	Door	0.76 x 2.13
D/KW	Door / Kitchen Window	1.98 x 2.13
FD	French Door	2.44 x 2.13
O1	Opening	0.91 x 2.13
W	Window	1.83 x 1.37
W1	Window	1.52 x 1.37
W2	Window	1.22 x 1.37
W3	Window	0.91 x 1.37
W3	Window	0.61 x 1.37
KW	Kitchen Window	1.22 x 1.00
KW1	Kitchen Window	0.69 x 1.00
V1	Ventilator	0.61 x 0.61
EX	Exhaust Fan	0.61 x 0.61

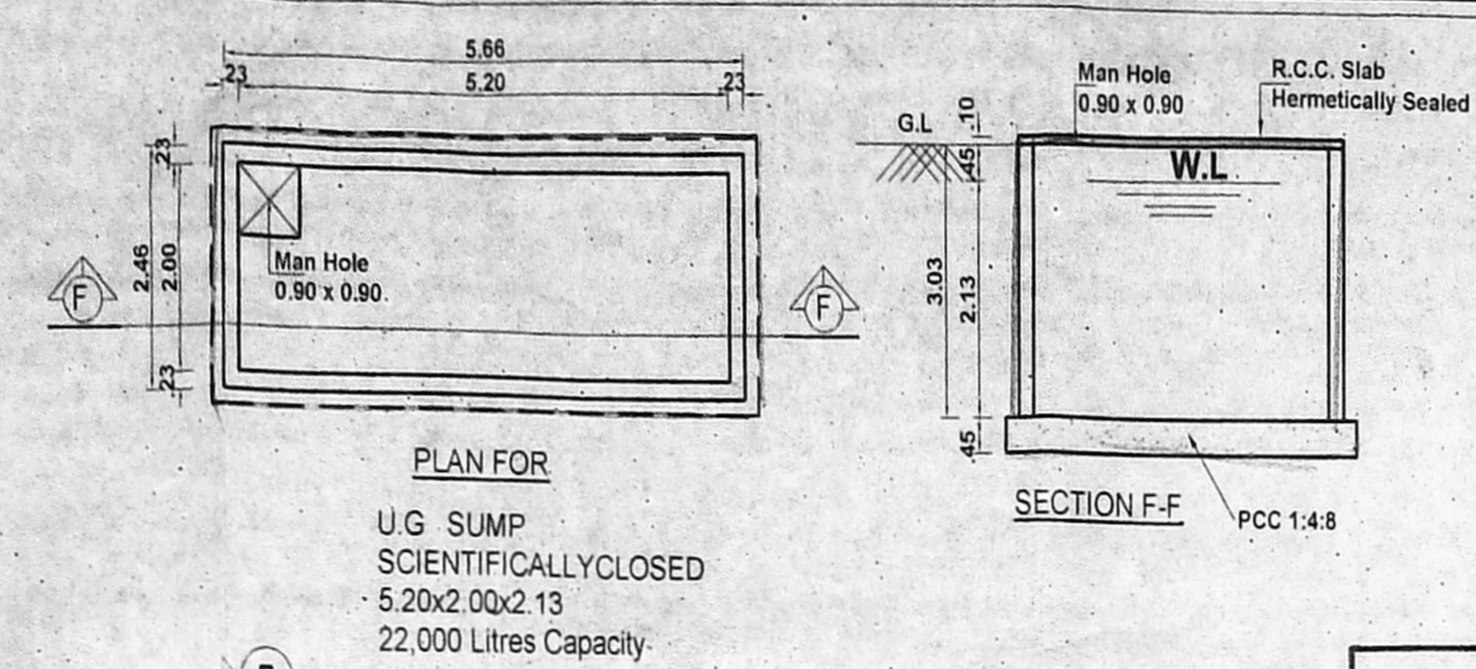
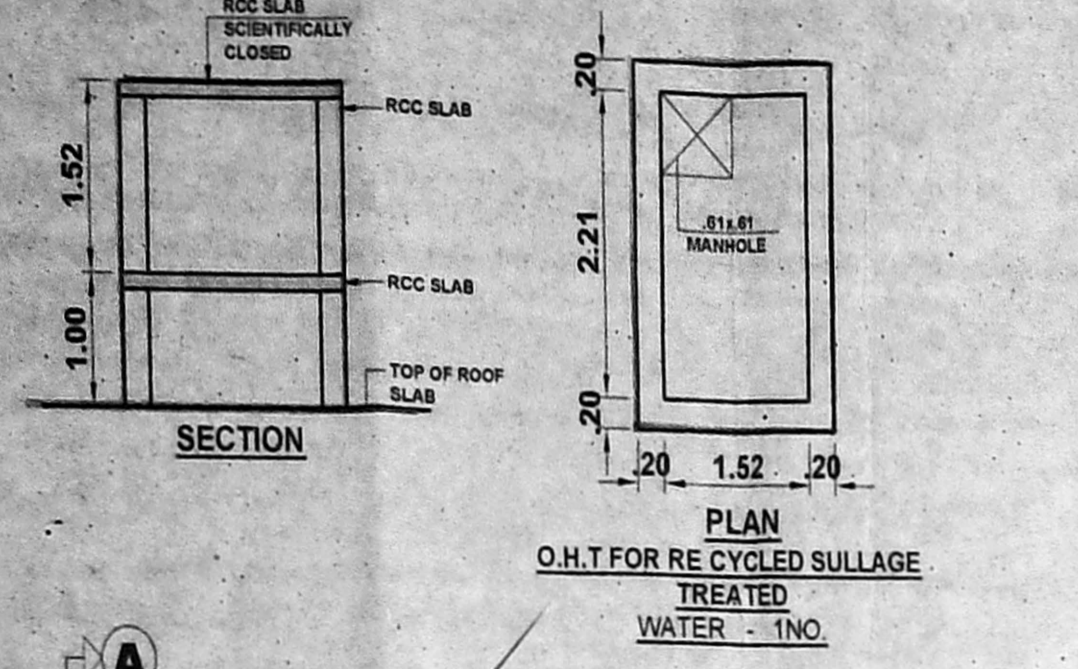
**SCALE : 1:100**  
**ALL DIMENSION ARE IN METRE**  
**COLOUR INDEX :-**  
 PROPOSED = [Symbol]  
 BOUNDARY = [Symbol]  
 ROAD = [Symbol]

For Raunag Foundation,  
*Raunag*  
 Partner.

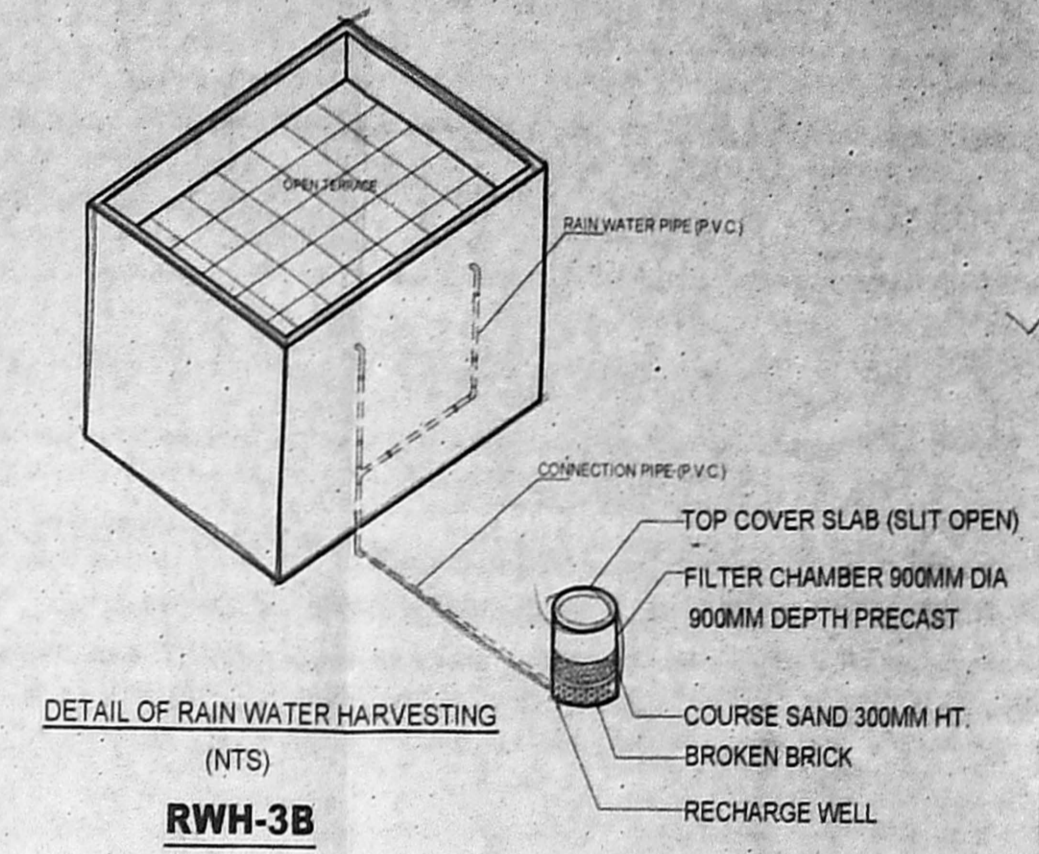
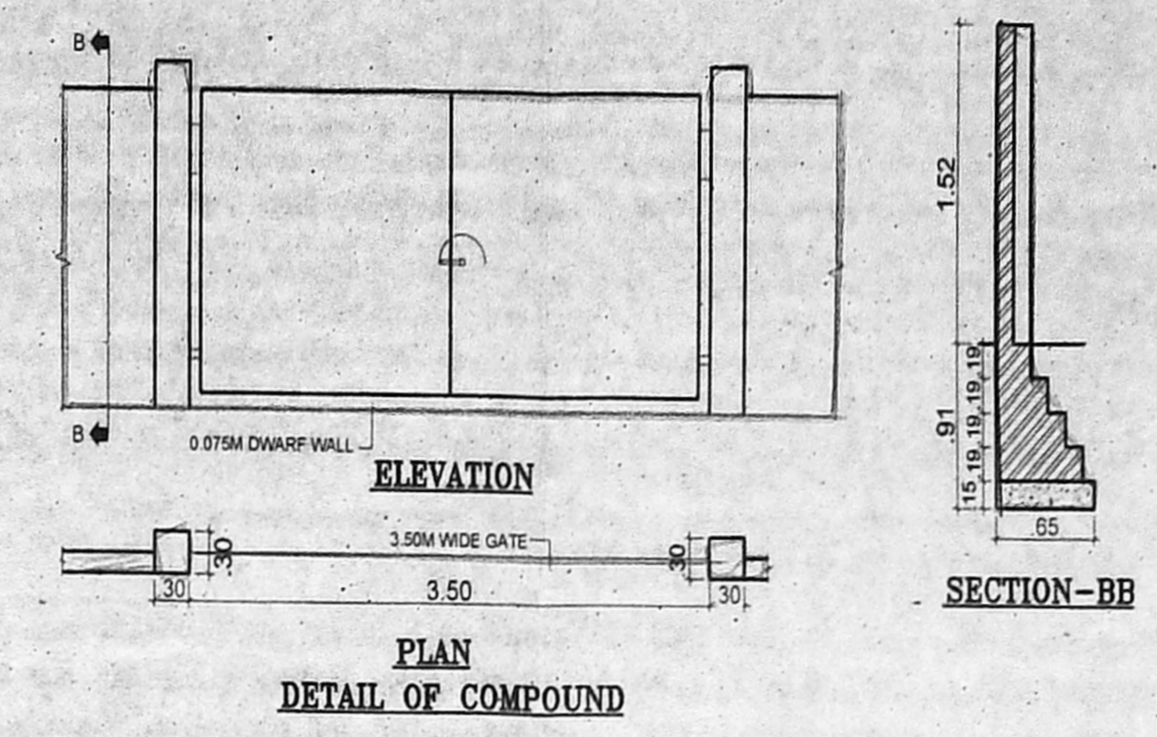
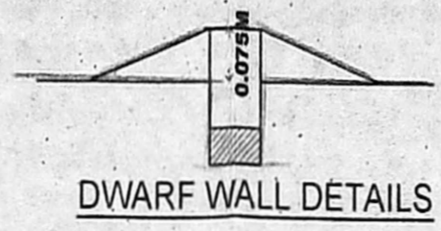
**GPA / OWNER SIGNATURE :-**

**STRUCTURAL ENGINEER :-**  
 REENA NISHITHA LUDIA P BARCH  
 COUNCIL OF ARCHITECTS, No. 62/28/2003  
 CMDA REGD. No. 62/28/2003  
 Plot No. 12, 2-2, Gr. Fl., Anna Castle Apts  
 Selayur, Chennai - 73. Mob: 9952345931

**LICENSED SURVEYOR :-**  
 REENA NISHITHA LUDIA P BARCH  
 COUNCIL OF ARCHITECTS, No. 62/28/2003  
 CMDA REGD. No. 62/28/2003  
 Plot No. 12, 2-2, Gr. Fl., Anna Castle Apts  
 Selayur, Chennai - 73. Mob: 9952345931



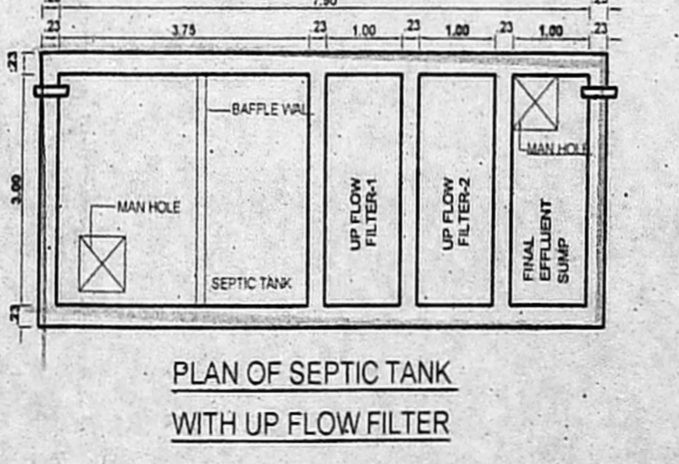
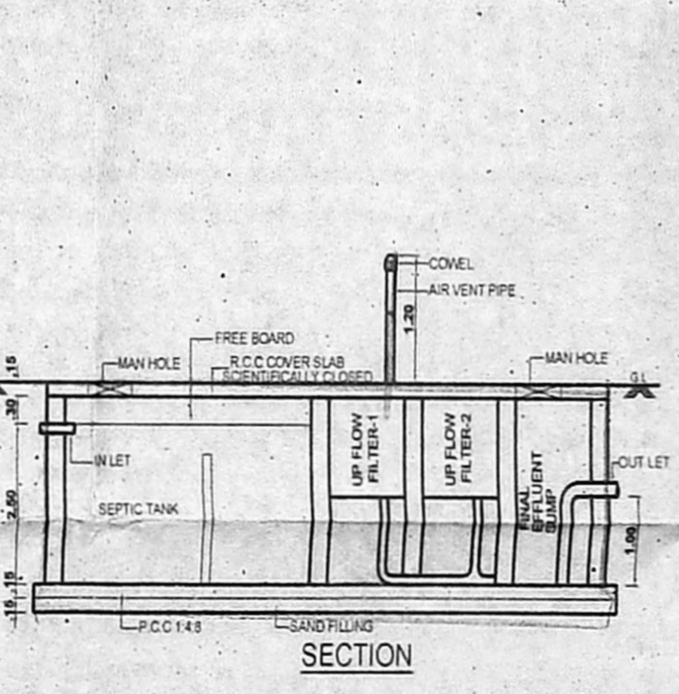
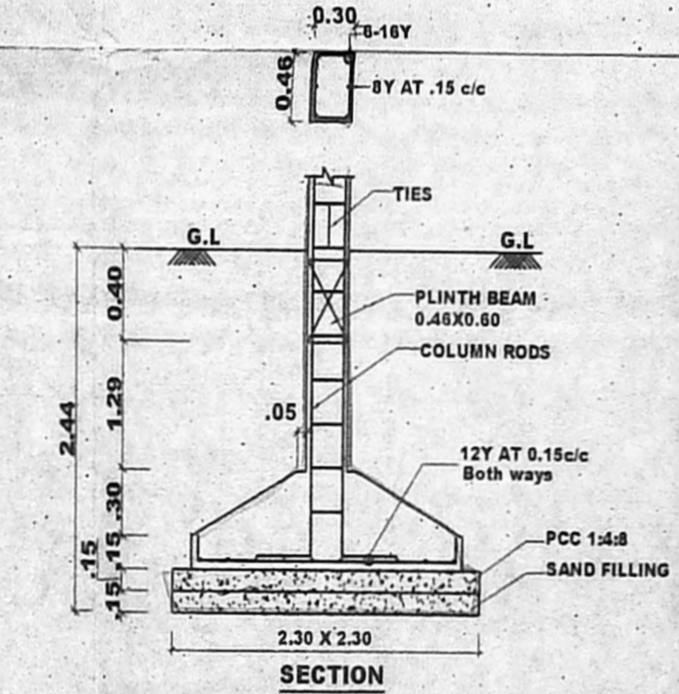
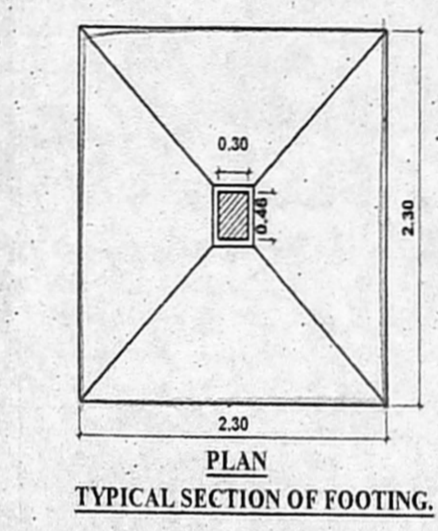
அலுவலகப் படி



Planning Permission No. 6/NHBB/165 B.B. 10/20  
**APPROVED**  
 Subject to conditions mentioned in this office order.  
 Letter No. NHBB/165 B.B. 10/20 dated 18.6.2020  
 For Chief Planner  
 Non High Rise Buildings  
 Chennai Metropolitan Development Authority  
 Chennai-600 008. 1/3rd AREA FOR SOLAR PHOTO VOLTAIC SYSTEM

This Planning Permission is granted on the delegated powers given by Member Secretary, CMDA, Chennai Office Order No. 7/2019 dated 12.03.2019.

This Planning Permission issued under Rule 104 of the CMDA Act, 1973 is subject to the conditions of the W.P.(MD) No. 4948 of 2019 and W.P.(MD) No. 4912 & 4913 of 2019.



**DESIGN CALCULATION FOR SEPTIC TANK WITH UP FLOW FILTER**

No Of Dwellings = 27 Dwellings (Professional consulting office)  
 No Of Uses = 27 x 5 = 135 Nos  
 Total Number of Fixtures Units = 27 Units  
 Assume a Peaking Factor 6 Litres per Fixture unit 27 x 6 = 162 Litres Per Minute  
**SEPTIC TANK**

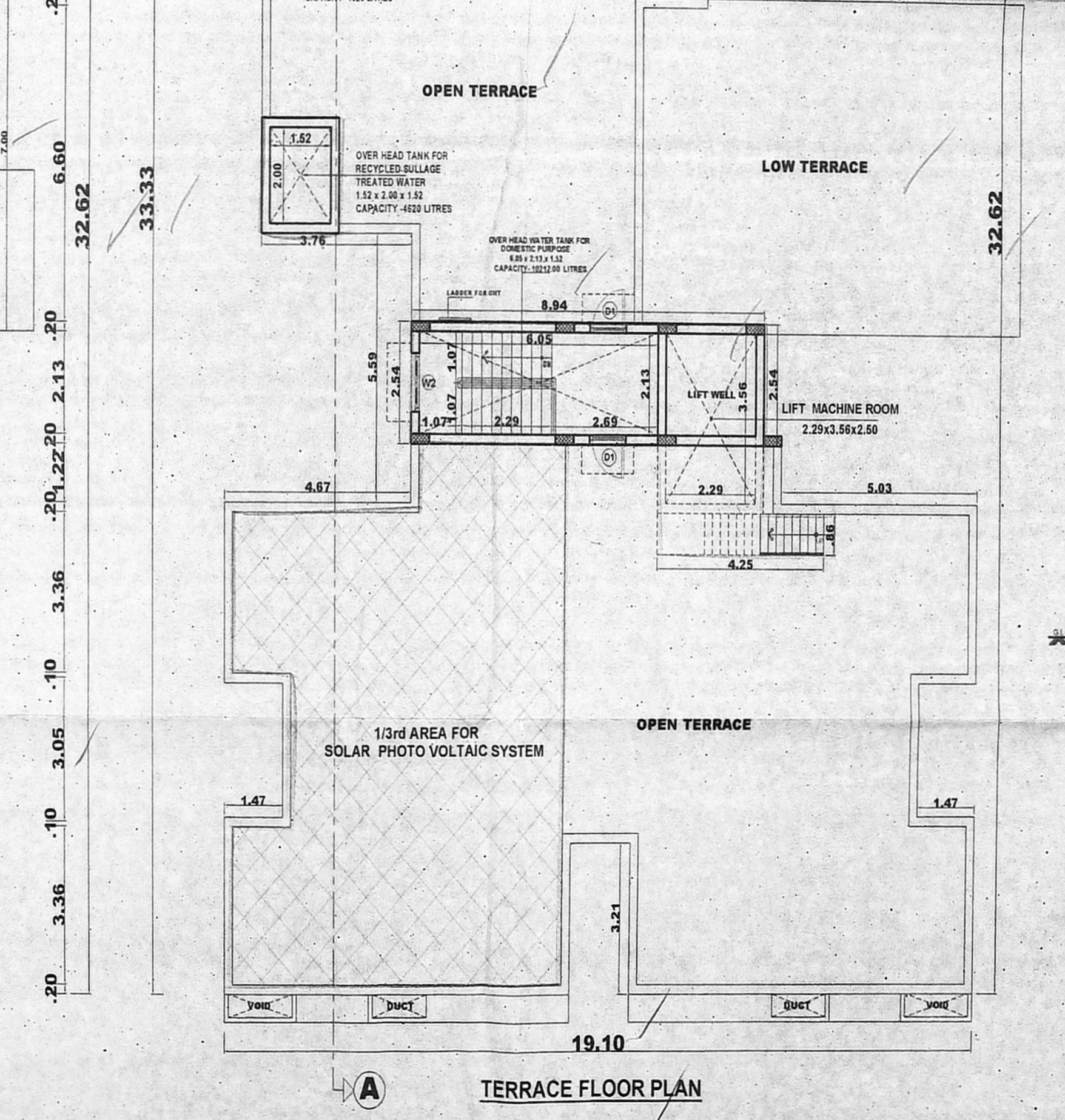
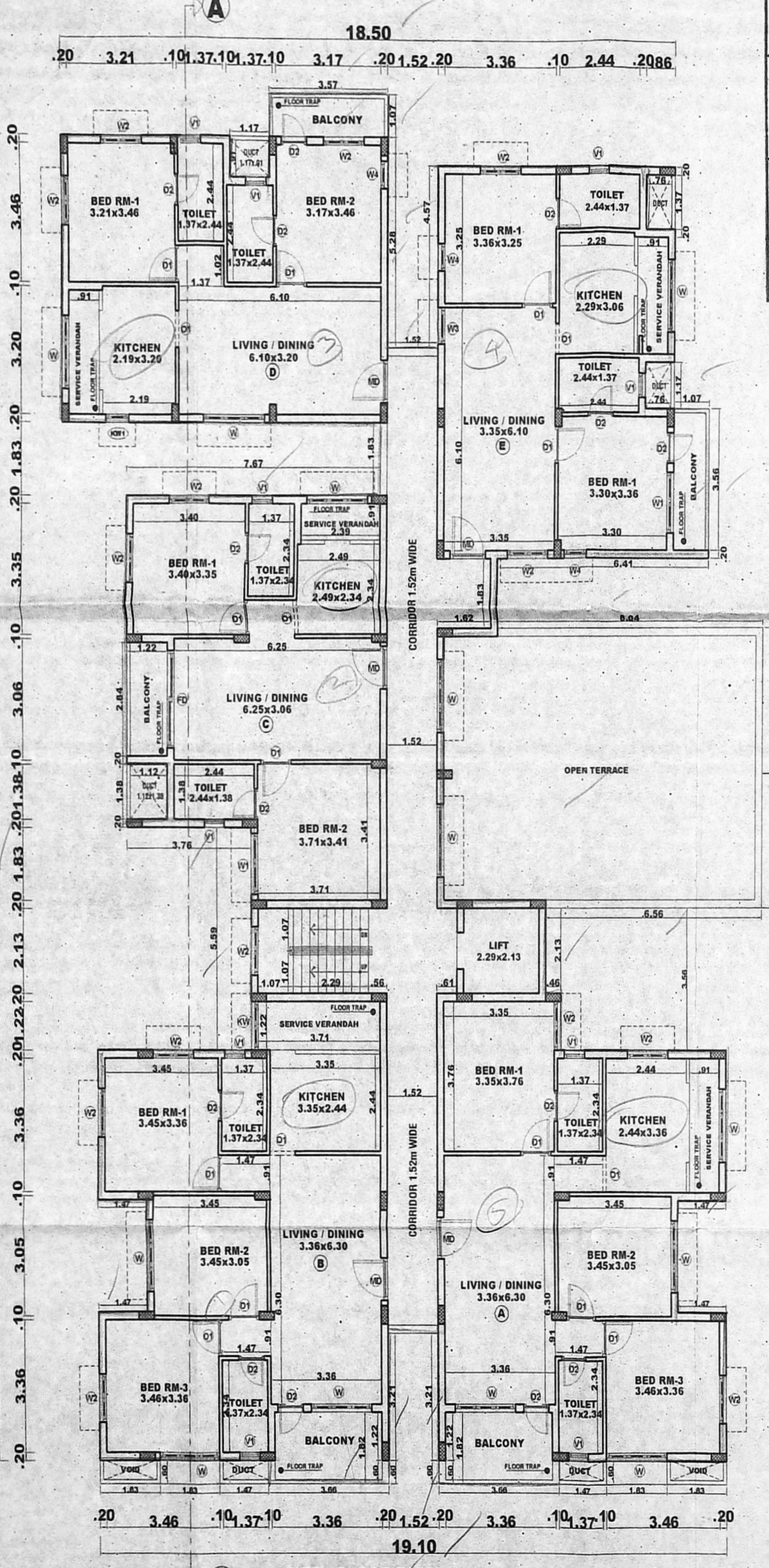
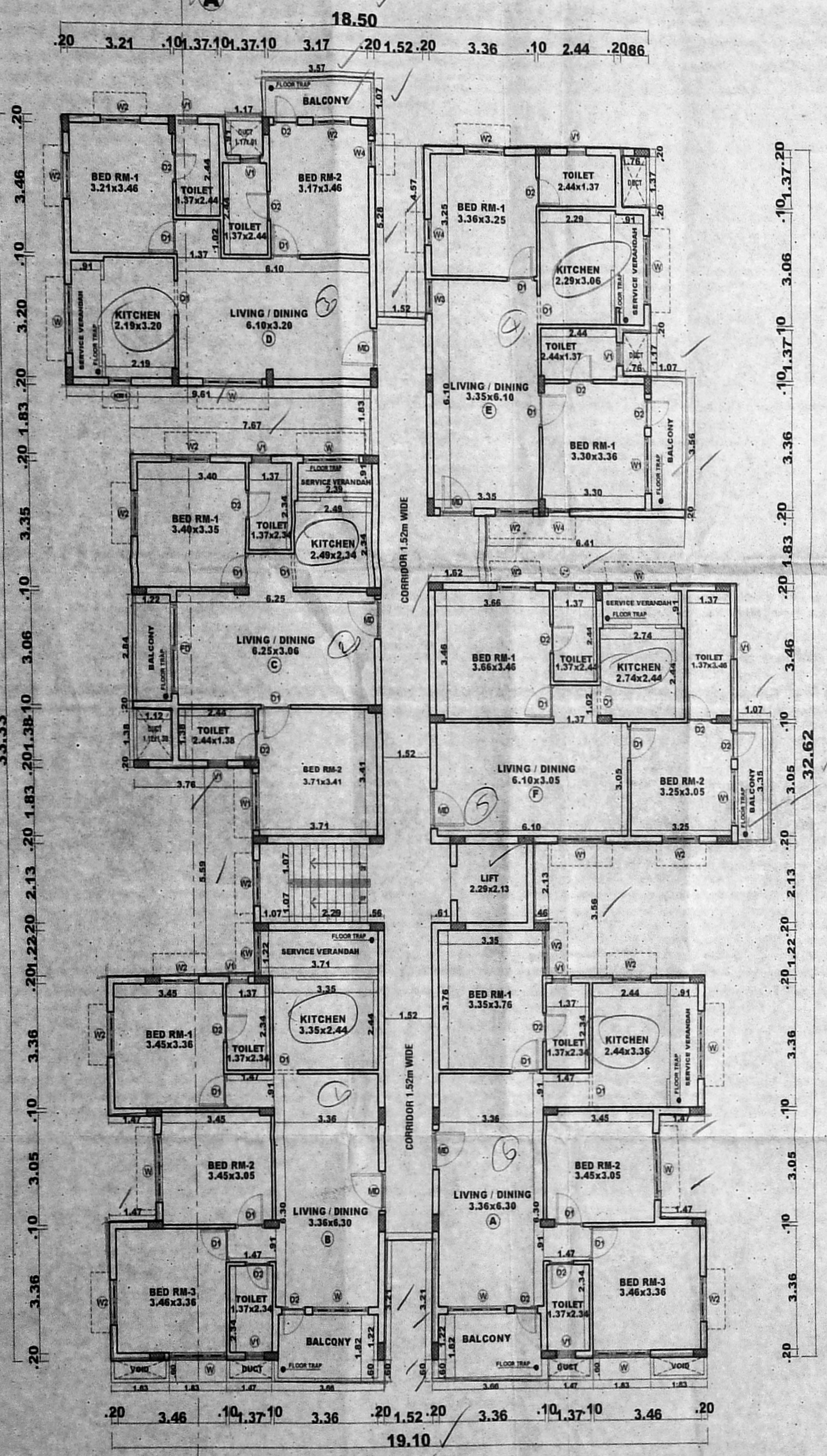
Surface Area Required for Septic Tank =  $\frac{162 \times 0.92}{10} = 14.90 \text{ M}^2$   
 Volume of Free Board =  $14.90 \times 0.30 = 4.47 \text{ M}^3$   
 Volume of Digestion =  $162 \times 0.032 = 5.18 \text{ M}^3$   
 Volume of Sludge =  $300 \times 965 \times 0.0002 = 21.90 \text{ M}^3$   
 Volume of Sedimentation =  $30.91 \times 0.30 = 9.27 \text{ M}^3$   
**TOTAL VOLUME = 40.82 M<sup>3</sup>**

Depth of Septic Tank =  $\frac{40.82}{14.90} = 2.74 \text{ M}$   
 Required Depth = Say 1.85M  
 Provided Depth = 2.50 M  
 Ratio of Length and Breadth = 2 : 1  
 Size of Septic Tank Required = 3.50M x 1.75M x 1.75M  
 L x B x H

**UPFLOW FILTER**  
 Up Flow Capacity Required =  $300 \times 0.04 = 12.00 \text{ M}^3$   
 Depth Assumed = 2.00 M  
 Hence Area of Final Effluent Surface Required =  $\frac{12.0}{2.00} = 6.0 \text{ M}^2$   
 Therefore Area of Final Effluent Surface Provided = 4.00 M

Size of Final Effluent Collection Sump Required =  $2.00\text{M} \times 2.50\text{M} \times 2.00\text{M} = 10.00 \text{ M}^3$   
 Therefore Size of Final Effluent Collection Sump Provided =  $2.00\text{M} \times 2.00\text{M} \times 2.00\text{M} = 8.00 \text{ M}^3$   
 Size of Upflow Filter I Provided = 1.00M x 2.50M x 1.00M  
 Size of Upflow Filter II Provided = 1.00M x 2.50M x 1.00M

Provided Length of Septic Tank = 7.90 M  
 Provided Breadth of Septic Tank = 3.00 M  
 Provided Depth of Septic Tank = 2.50 M



1/3rd AREA FOR SOLAR PHOTO VOLTAIC SYSTEM