

அலுவலகப் படி

No. of Workers : 8 Nos
Horse Power : 5 HP

PLAN SHOWING THE PROPOSED CONSTRUCTION OF COTTAGE

INDUSTRIAL BUILDING
AT EAST COAST ROAD AND SANDEEP AVENUE, 2ND MAIN ROAD, NEELANGARAI, SHOLINGANALLUR, CHENNAI. COMPRISED IN T.S.NO. 74/3A, 3D 10, 11 & 12 OF NEELANGARAI VILLAGE, SHOLINGANALLUR TALUK, KANCHEEPURAM DISTRICT.

ZONE : 15, DIVISION : 192

- SPECIFICATION:**
- FOUNDATION IN R.C.C. OVER P.C.C & SAND FILLING
 - BRICK WORK IN C.M. 1:5 MIX
 - PLASTERING IN C.M. 1:3 MIX
 - ALL R.C.C. WORK IN C.C. 1:2:4 MIX
 - FLOORING CONCRETE IN C.C. 1:4:8 MIX
 - FLOOR FINISHING WITH MOSAIC TILES
 - JOINERIES IN COUNTRY WOOD
 - FINISHING WITH COLOUR WASH

COLOUR INDEX:

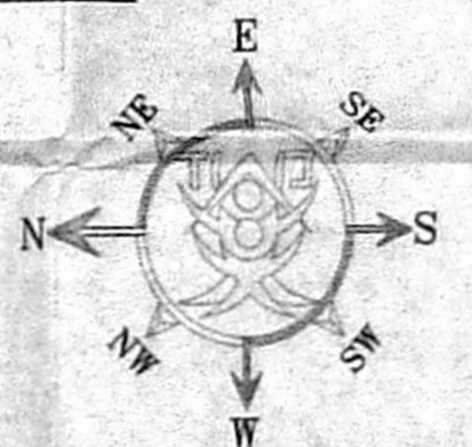
ROAD COLOUR

PLOT BOUNDARY COLOUR

PROPOSAL COLOUR

SCALE : 1 in 150

NORTH POINT:



AREA STATEMENT

EXTENT AS PER DOCUMENT : 2180.86 Sq.m.
EXTENT AS PER PATTA : 2250.00 Sq.m.

FLOOR	BUILD UP AREA SQ.M.
GROUND FLOOR	778.92
FIRST FLOOR	778.92
TOTAL	1557.84

ACHIEVED FSI : $\frac{1557.84}{2180.86} = 0.71$

PLOT COVERAGE : $\frac{778.92}{2180.86} \times 100 = 35.71\%$

PARKING DETAILS	REQUIRED	PROVIDED
CARPARKING	16	16
TWO WHEELER PARKING	32	45
CYCLE PARKING	32	51

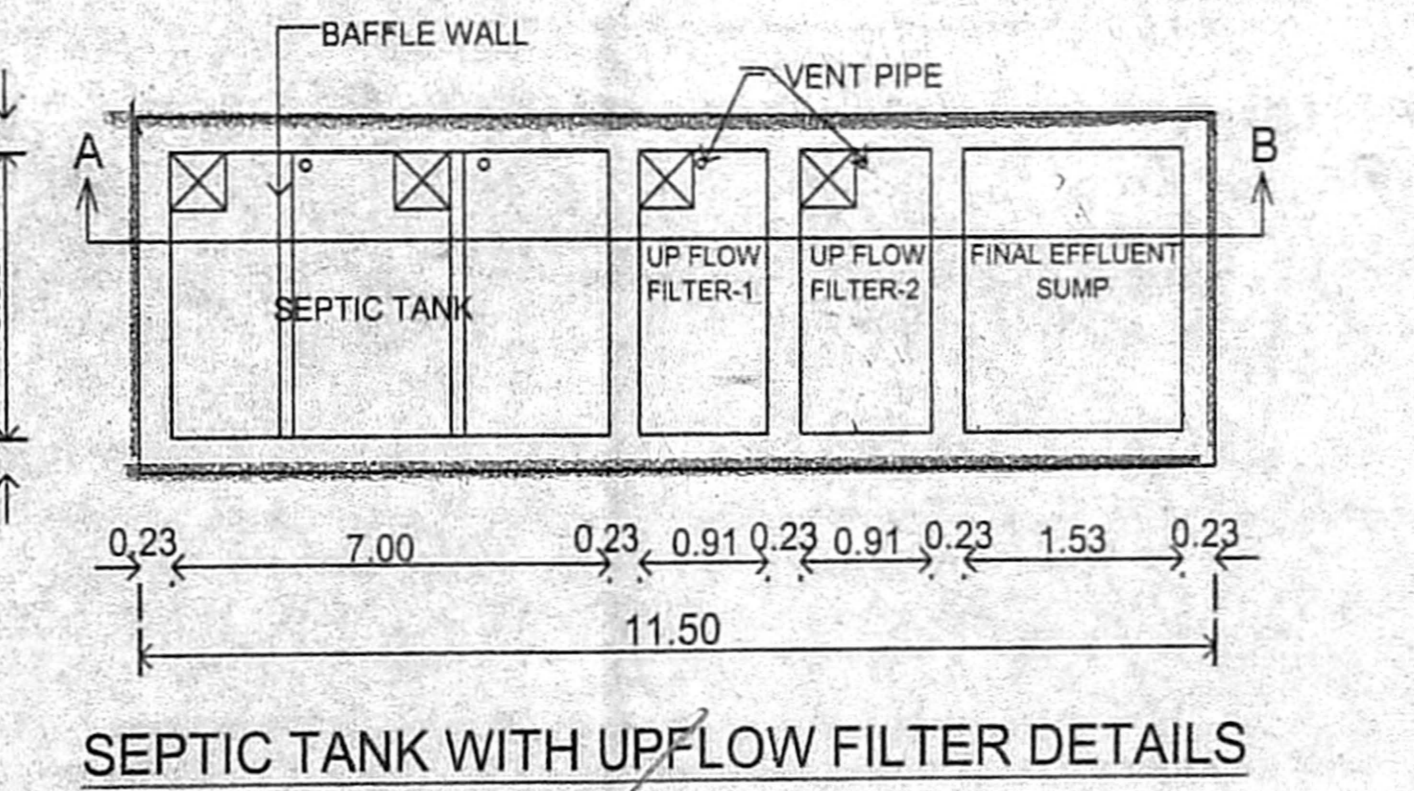
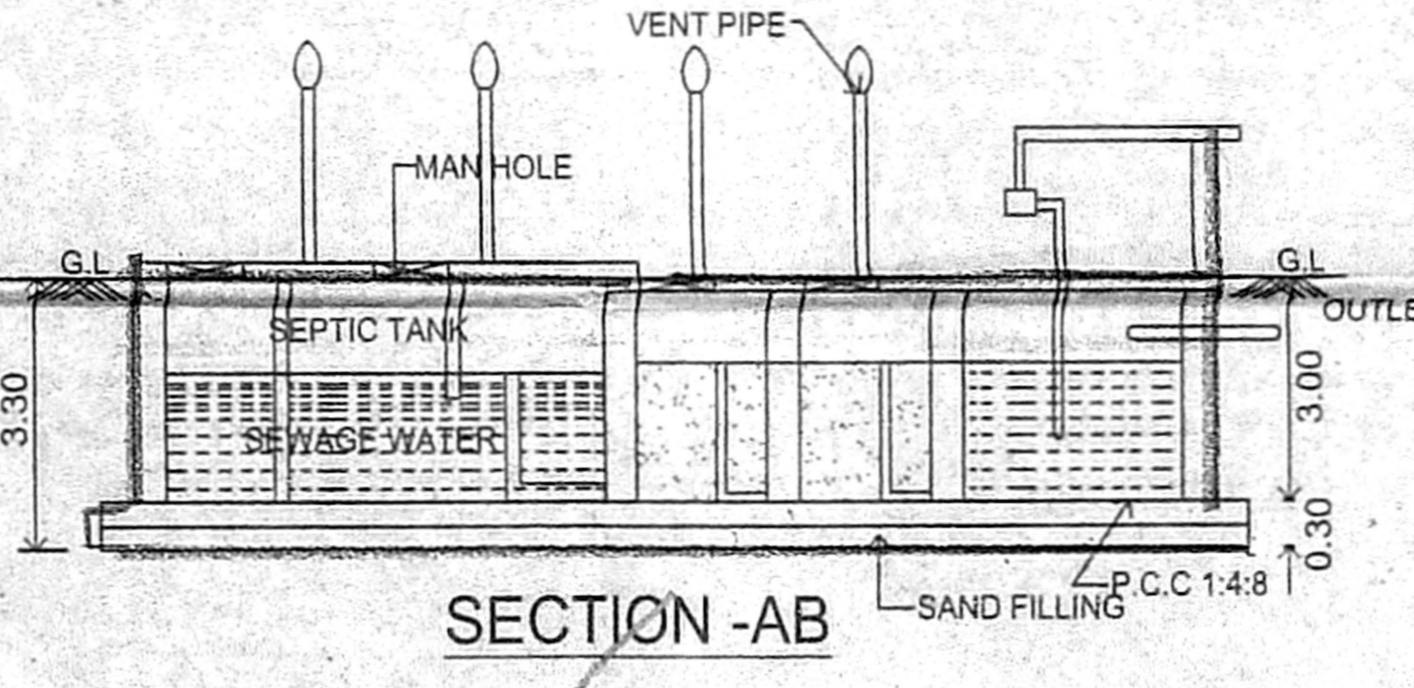
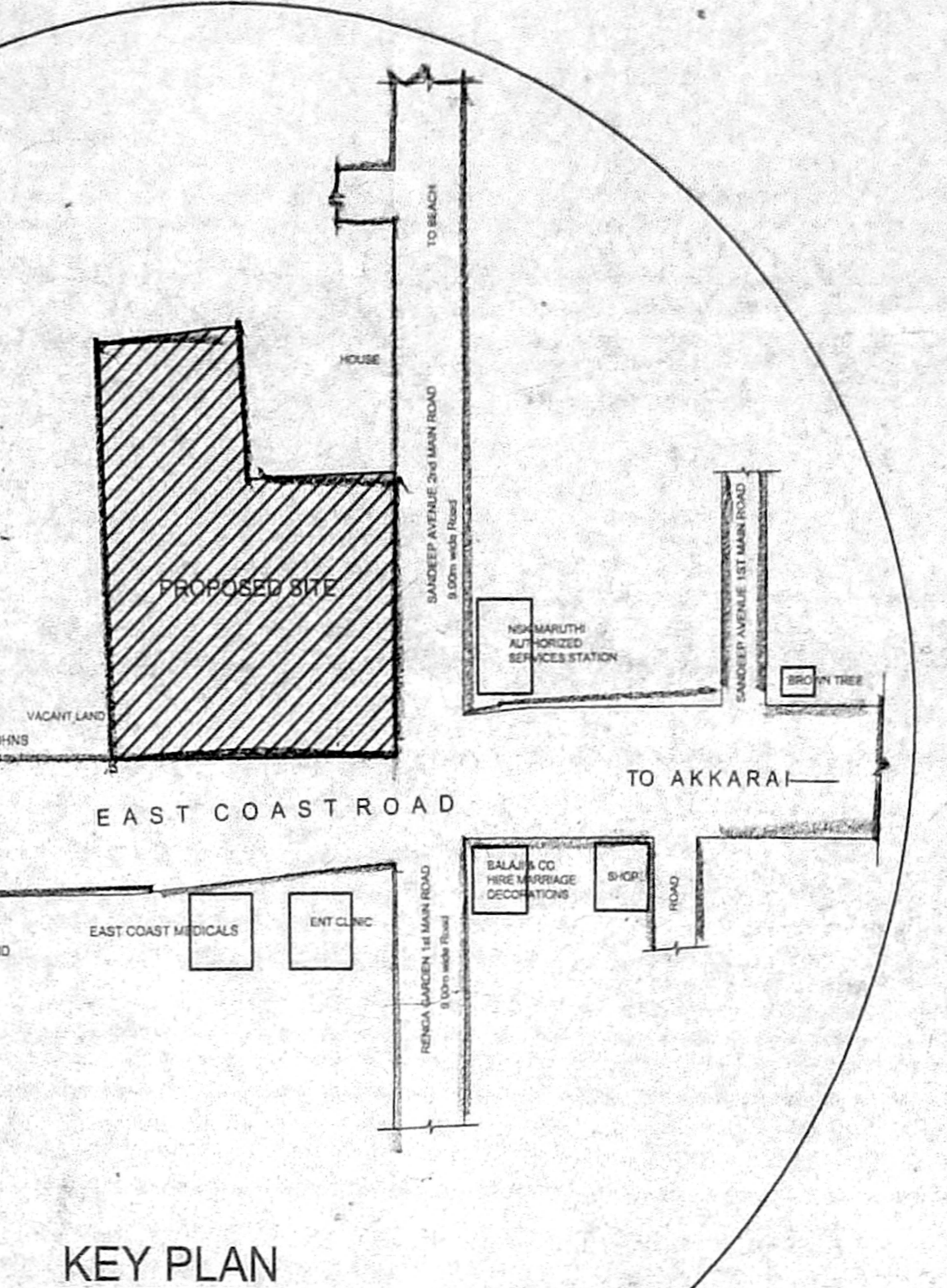
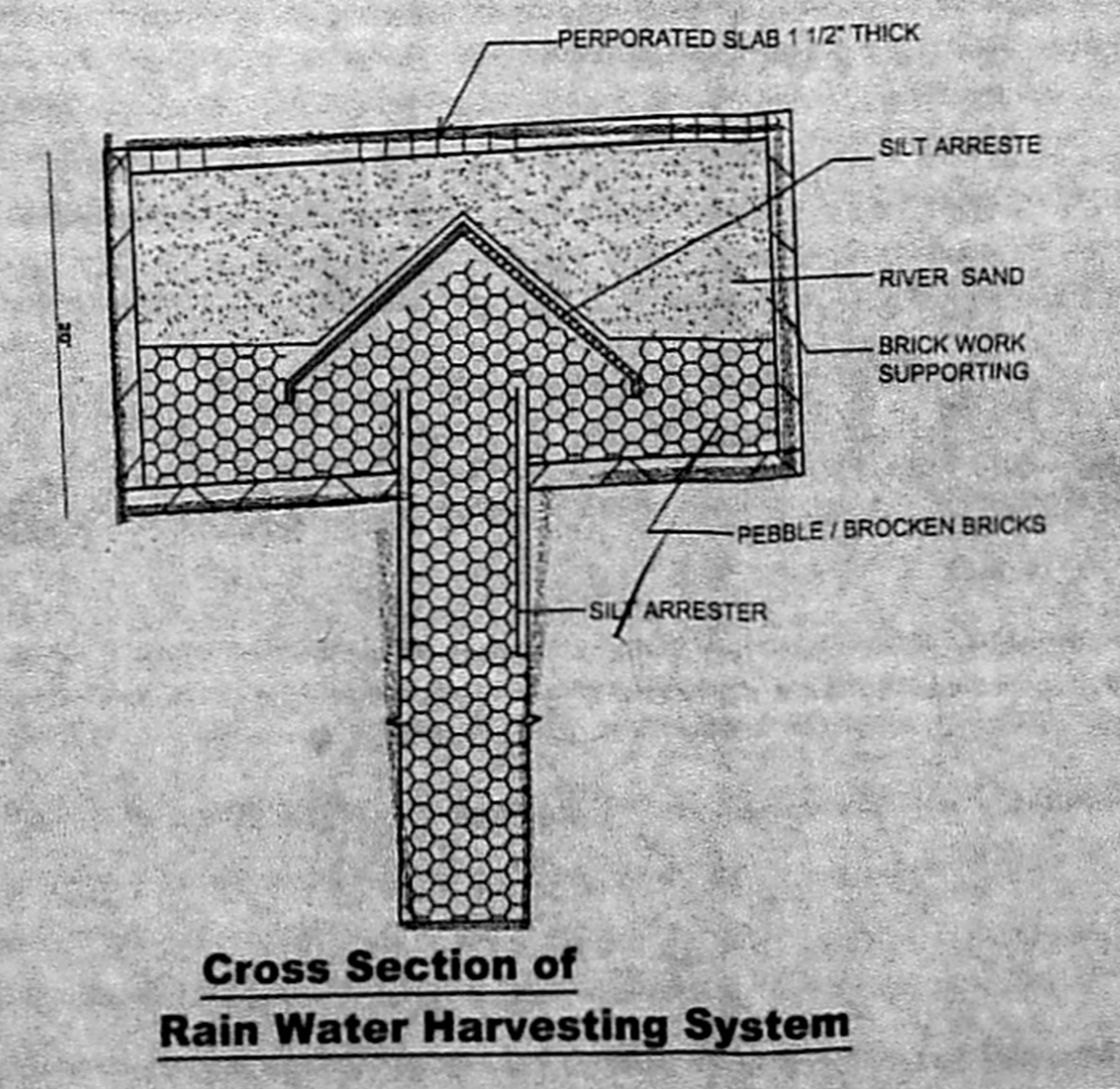
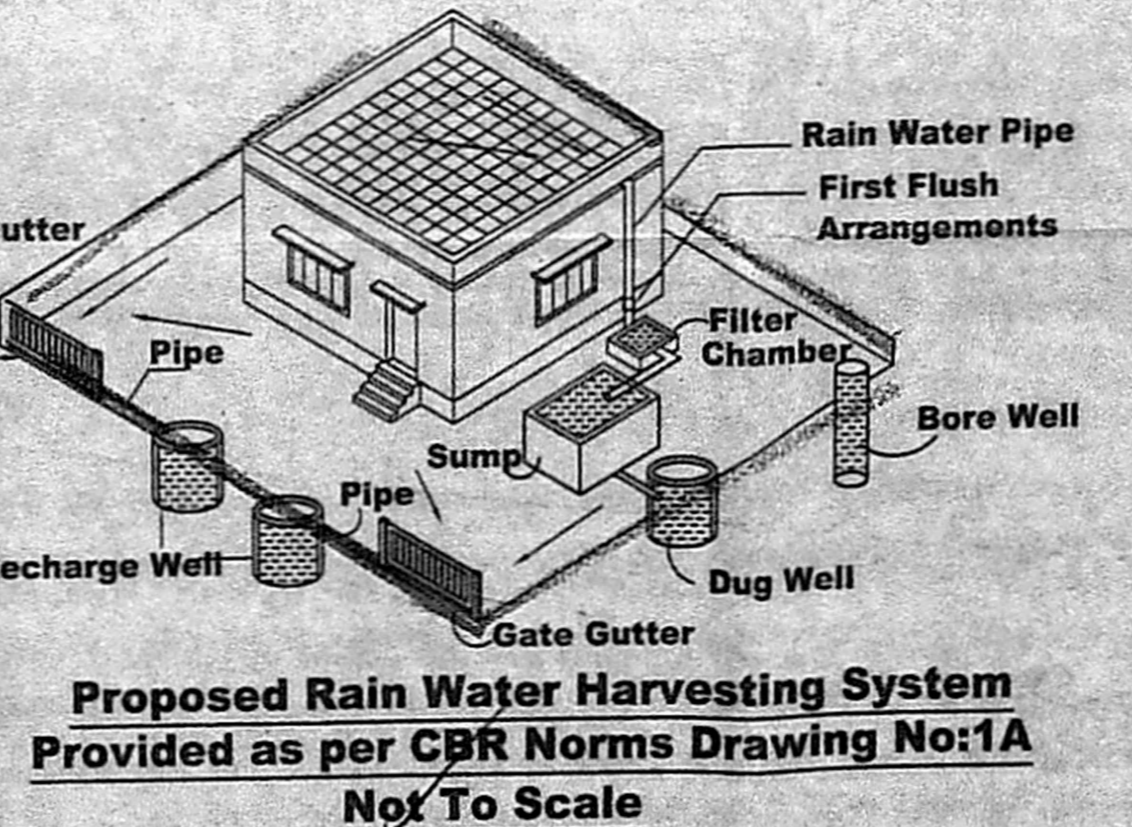
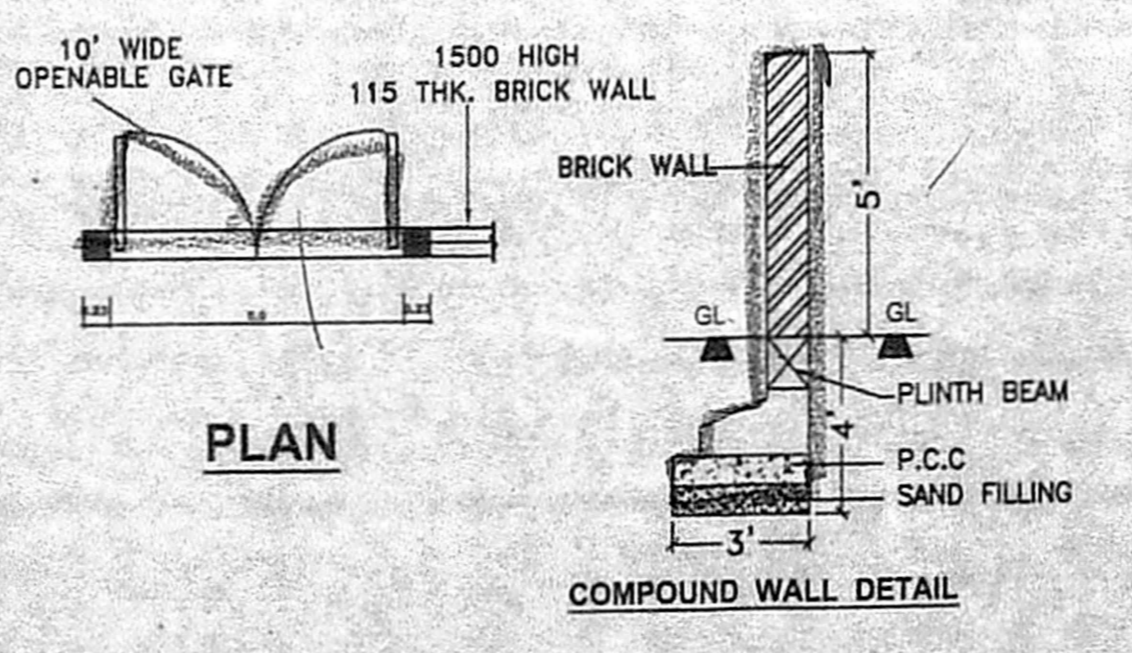
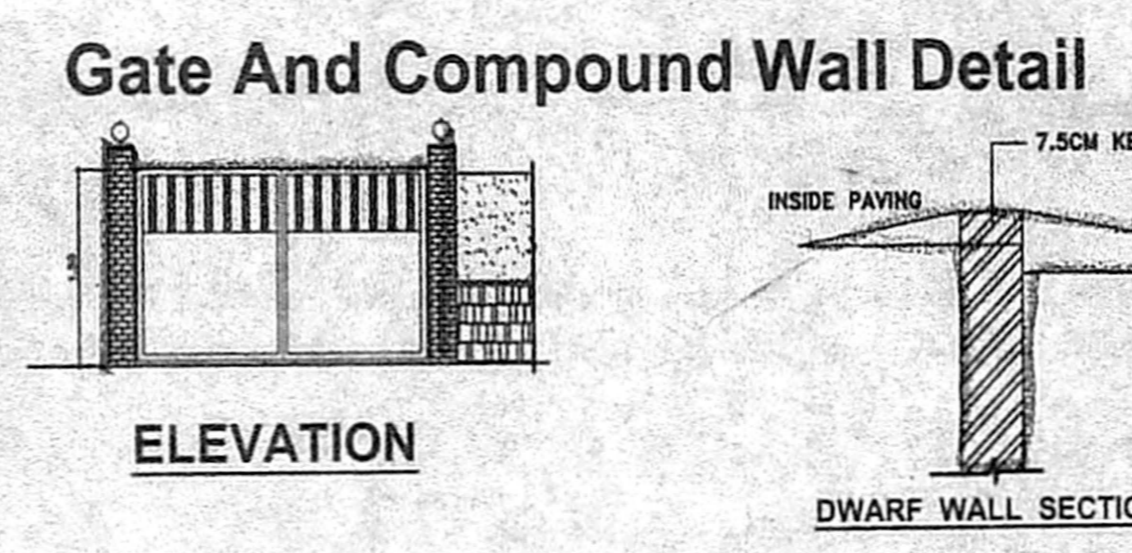
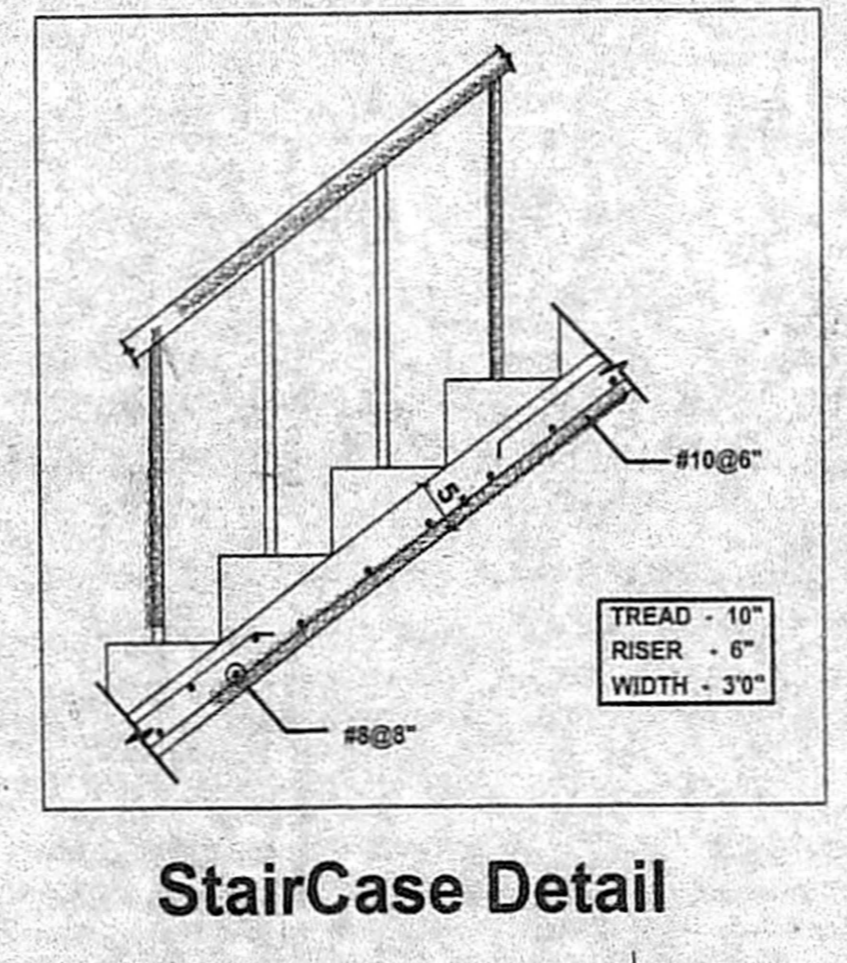
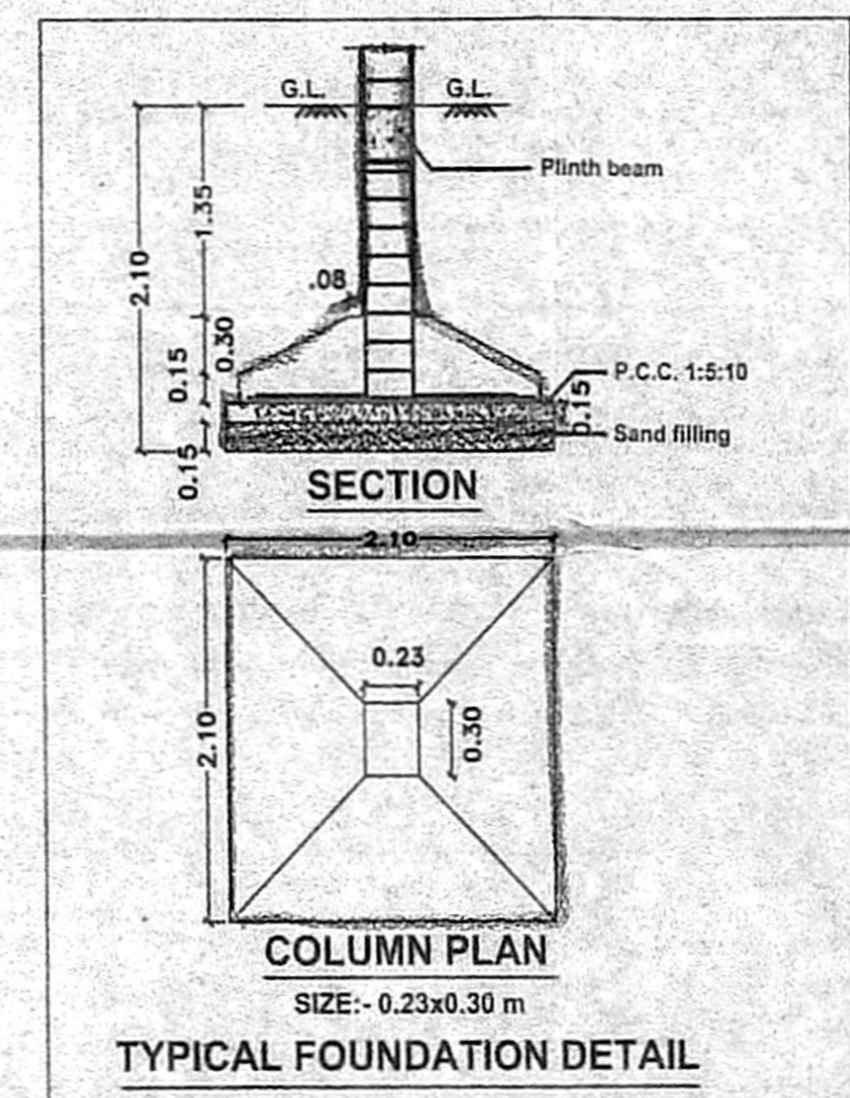
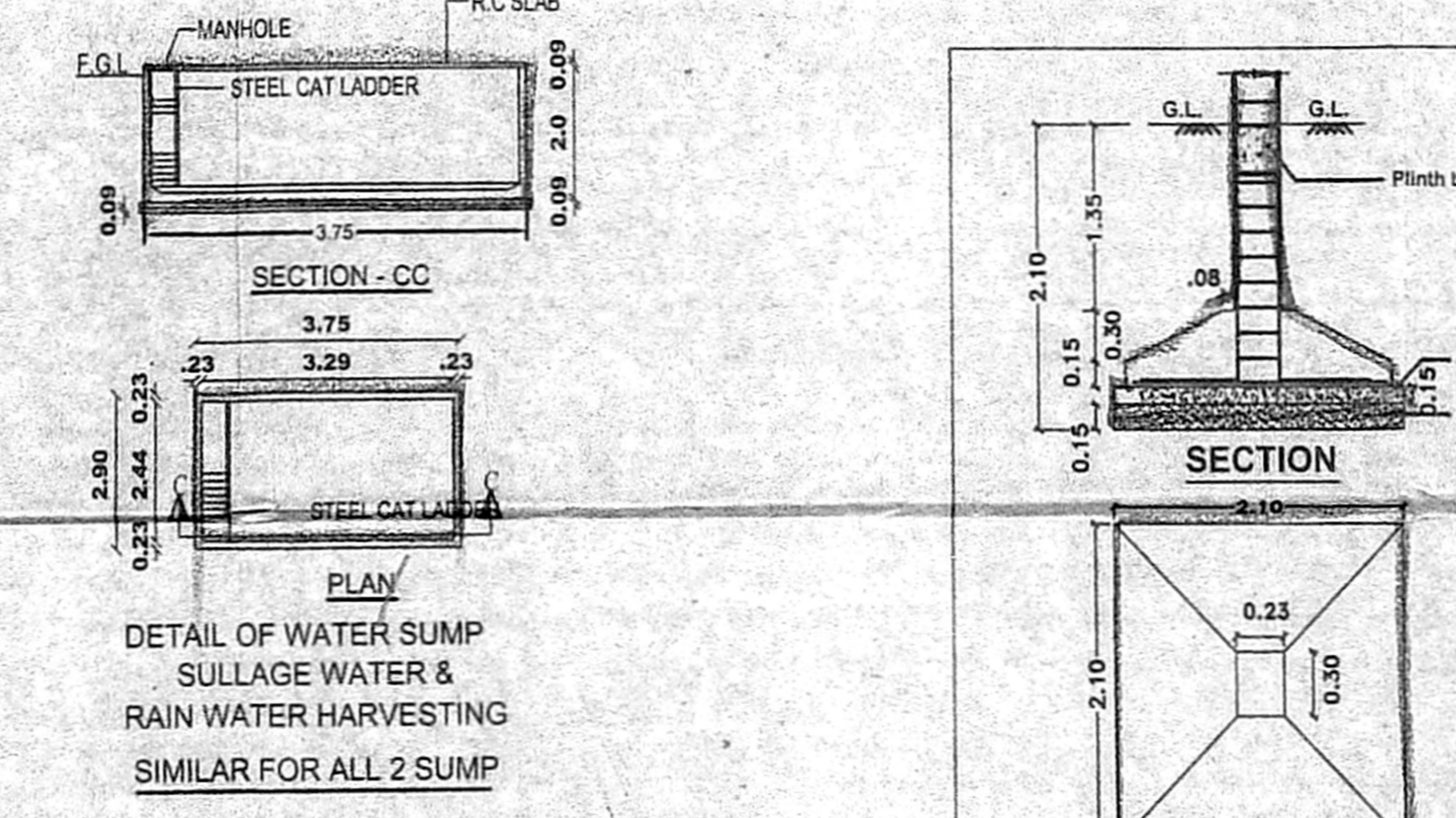
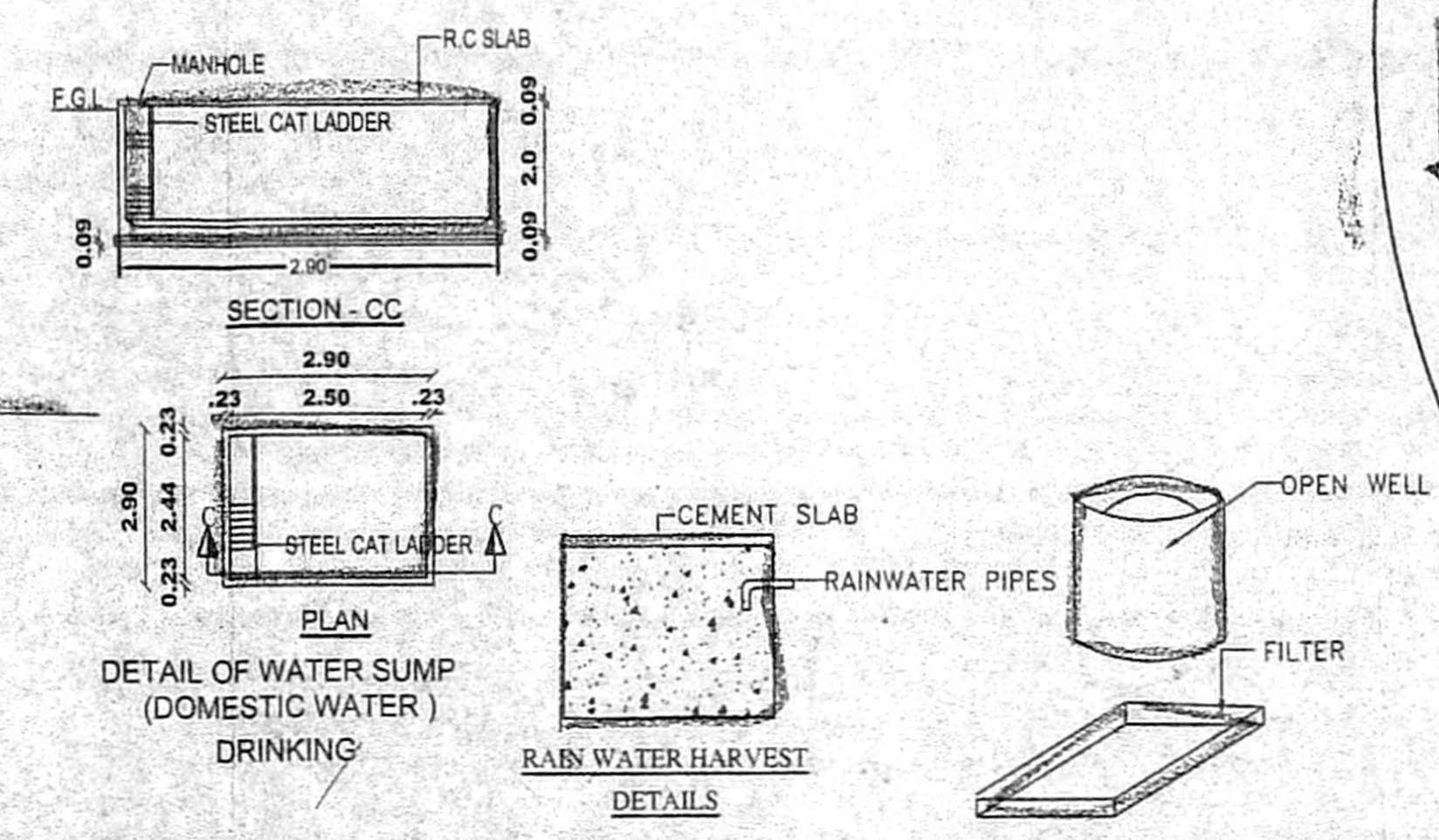
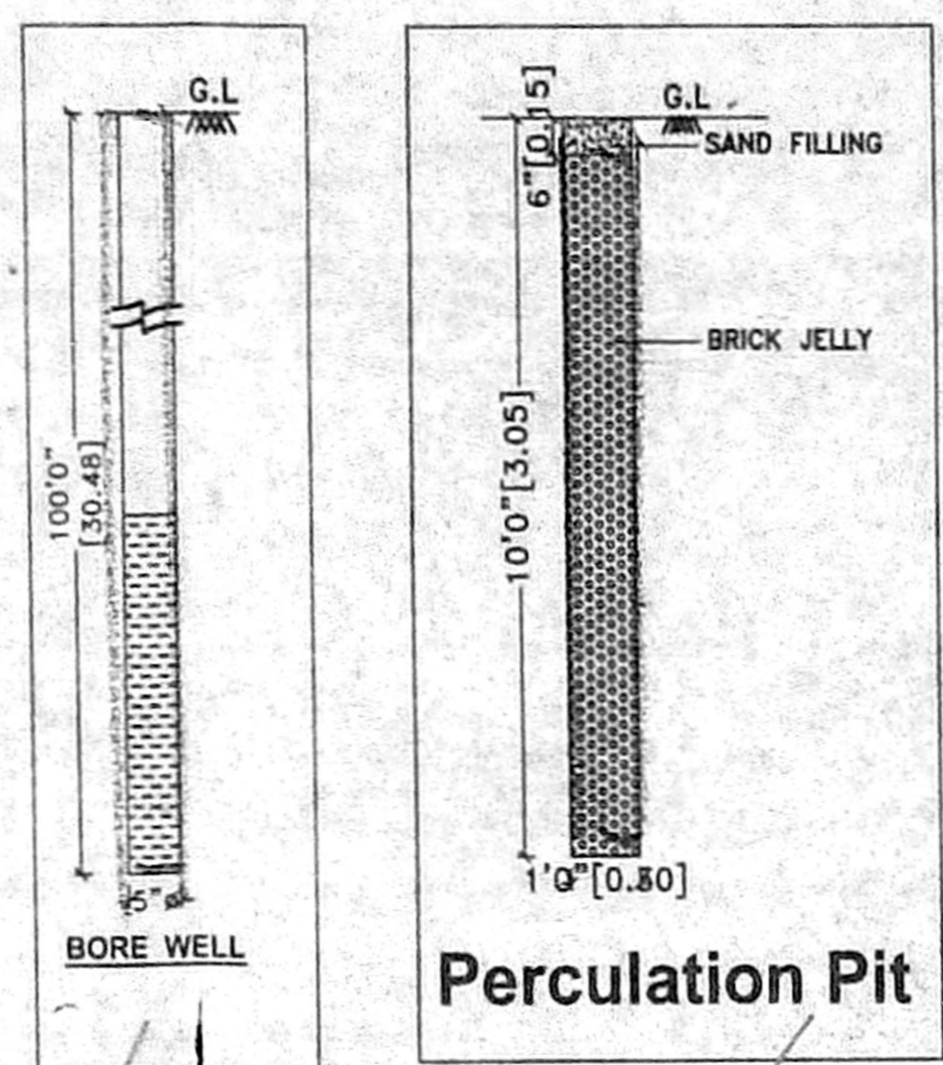
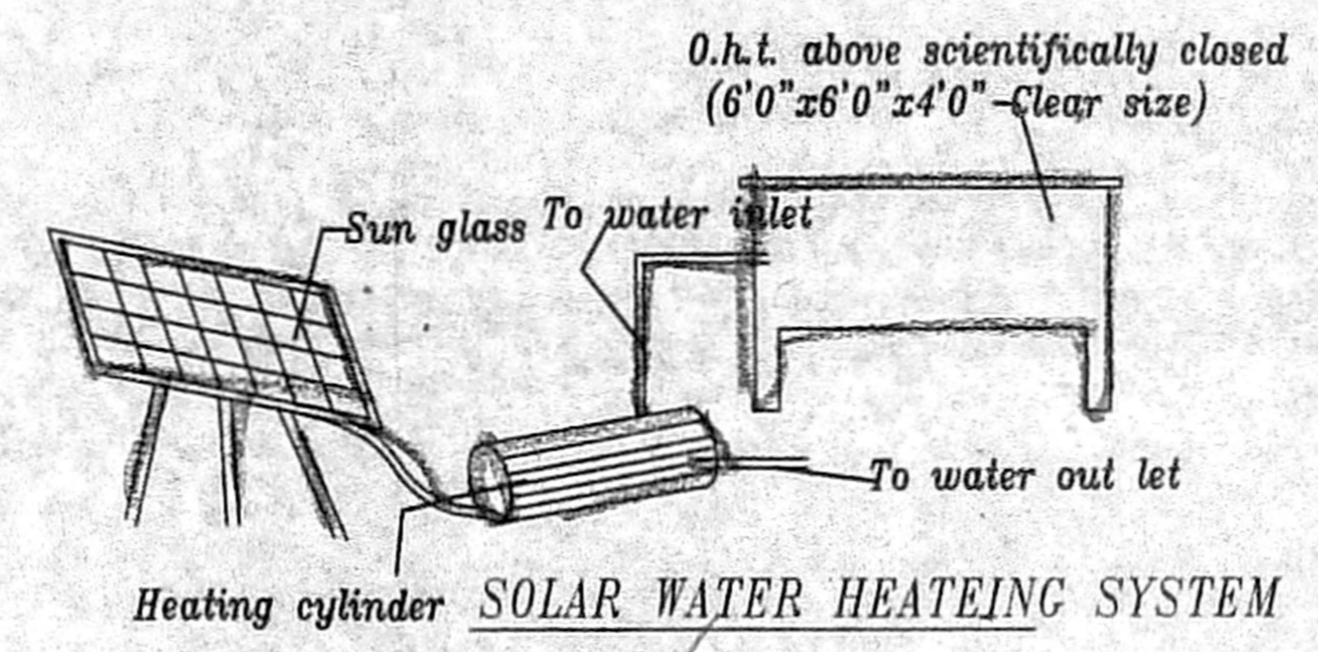
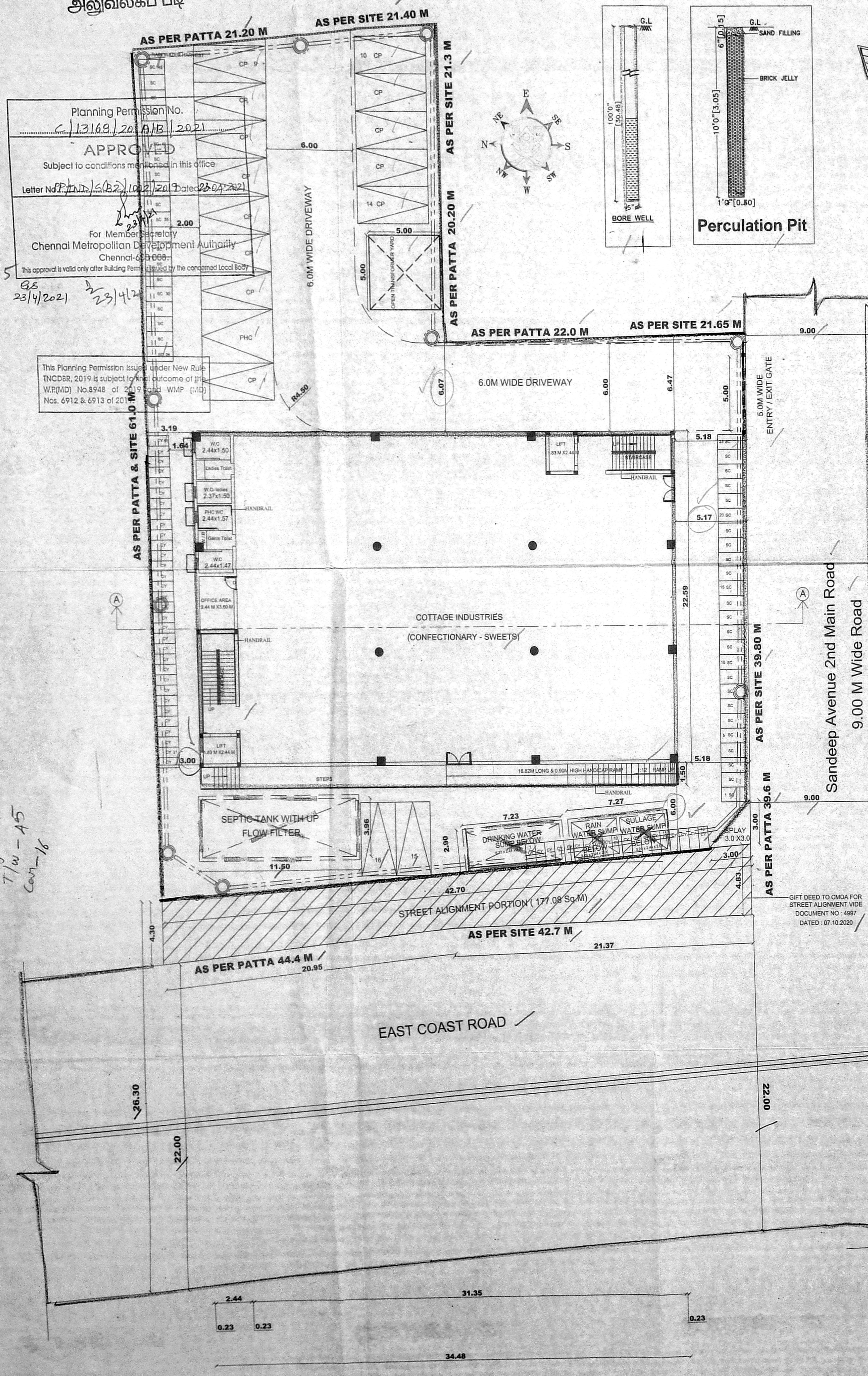
NOTE : ALL DIMENSIONS ARE IN 'METER'

APPLICANT SIGNATURE

[Signature]

ARCHITECT SIGNATURE:

[Signature]
A.O. RAJASIVASUNDAR, B.A.C.
REGISTERED ARCHITECT
No. RAJ/019/19/02/19/0
114, NSK Road, E-Shola, Trichy District, Chennai - 600 026.



DESIGN OF SEPTIC WITH UPFLOW FILTER

TOTAL FSI AREA : 1557.84 Sq.m.
No. of USER : 32
(a) Assuming for every 50 Sq.m. = 1557.84 Sq.m. / 50.00 Sq.m. = 32 Sev 20 Nos.
Rate of water supply : 150 Litres/Head/Day
Flow of sewage per day : 160 x 150 = 24000 Litres/day
Assumed detention period : 18 Hours
Tank Capacity : (24000 x 32) = 32000 Litres

The tank will be cleaned every year.
So the sludge storage capacity at the rate of 50 litres per year
Total volume of sludge : 24000 Lts + 1600 Lts = 25600 Litres

With provision for future expansion ADD 25% Extra
Let the tank capacity be : 8 Cu.m.
Assuming Depth of flow as : 2.00 m (Average)
Plan area of the tank : 8 Cu.m. / 2.00m = 4 Sq.m.
Rate of L : B : 3 : 1
Breadth B = $\sqrt{4}$: 1.15 m
L = 3 x 1.15 : 3.45 m
Free board of the tank : 0.69m
Total depth of the tank : 2.00m + 0.69m = 2.69m
Required size of septic tank : 3.45m x 1.15m x 2.69m = 10.67 Cu.m.
Size of Septic tank provided : 11.50m x 4.36 m x 3.30 m = 165.46 Cu.m.
Hence the Septic tank provided is sufficient

Design of Upflow filter:
Total discharge including extra : 30,000 Litres
flow taken for future extension (ADD 50%)
Assuming the percolation capacity of filter media of the upflow filter pit as 1.25 Cu.m. (1250 Litres/Sq.m./Day)
Volume of upflow filter pit required : 10 Cu.m. / 1.25 Cu.m. = 8.00 Cu.m.
Depth of upflow filter pit plan area required : 2.00m
8.00m / 2.00m = 4.00 Cu.m.
2 Nos. of upflow filter are provided each of size : 3.50m x 0.91m x 3.00m
Hence the 2 upflow filter tank each of size 3.50m x 0.91m x 3.00m is sufficient.

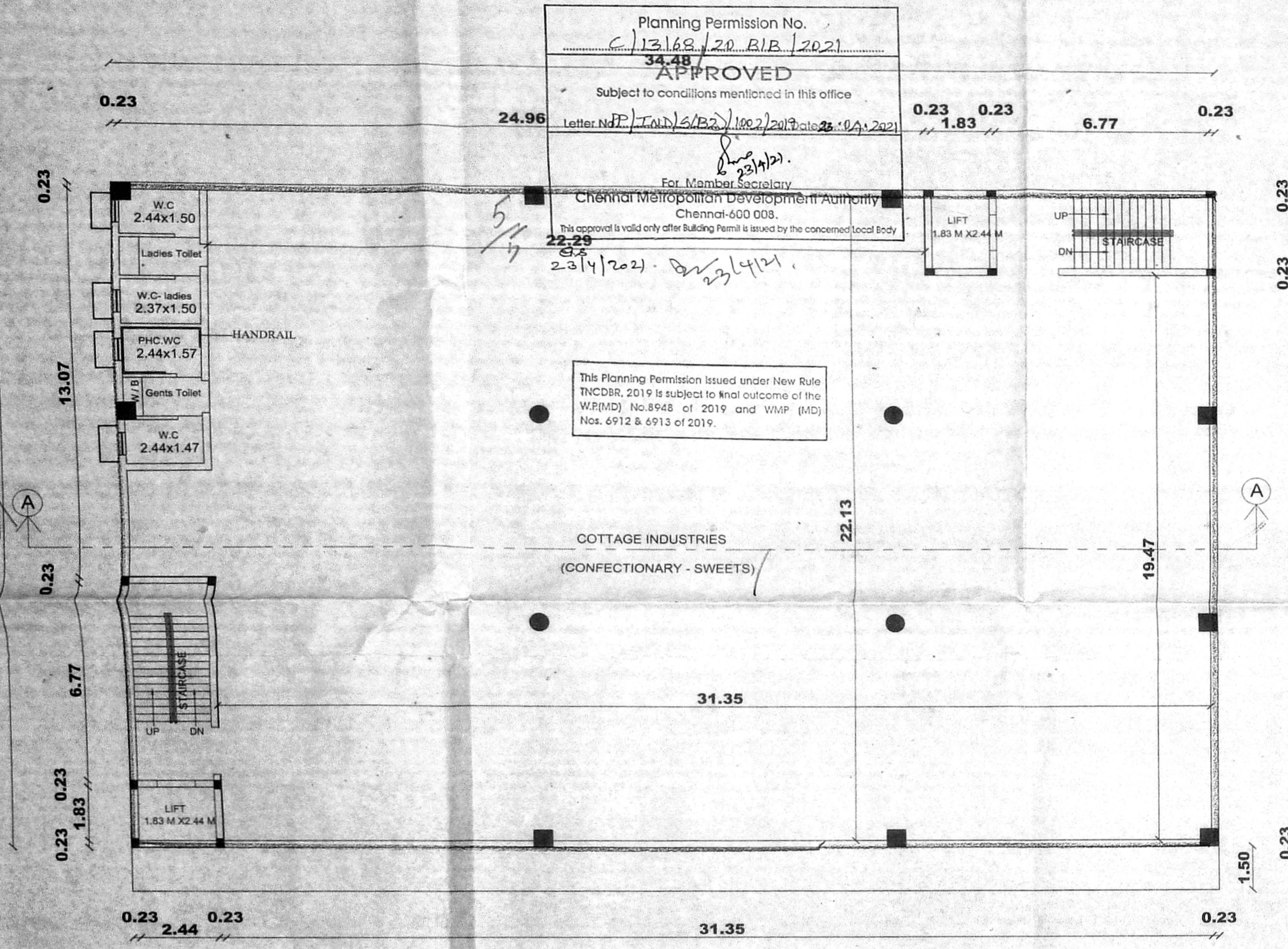
SITE CUM GROUND FLOOR PLAN

COLLECTION SUMP FOR HARVESTING FOR TERRACE

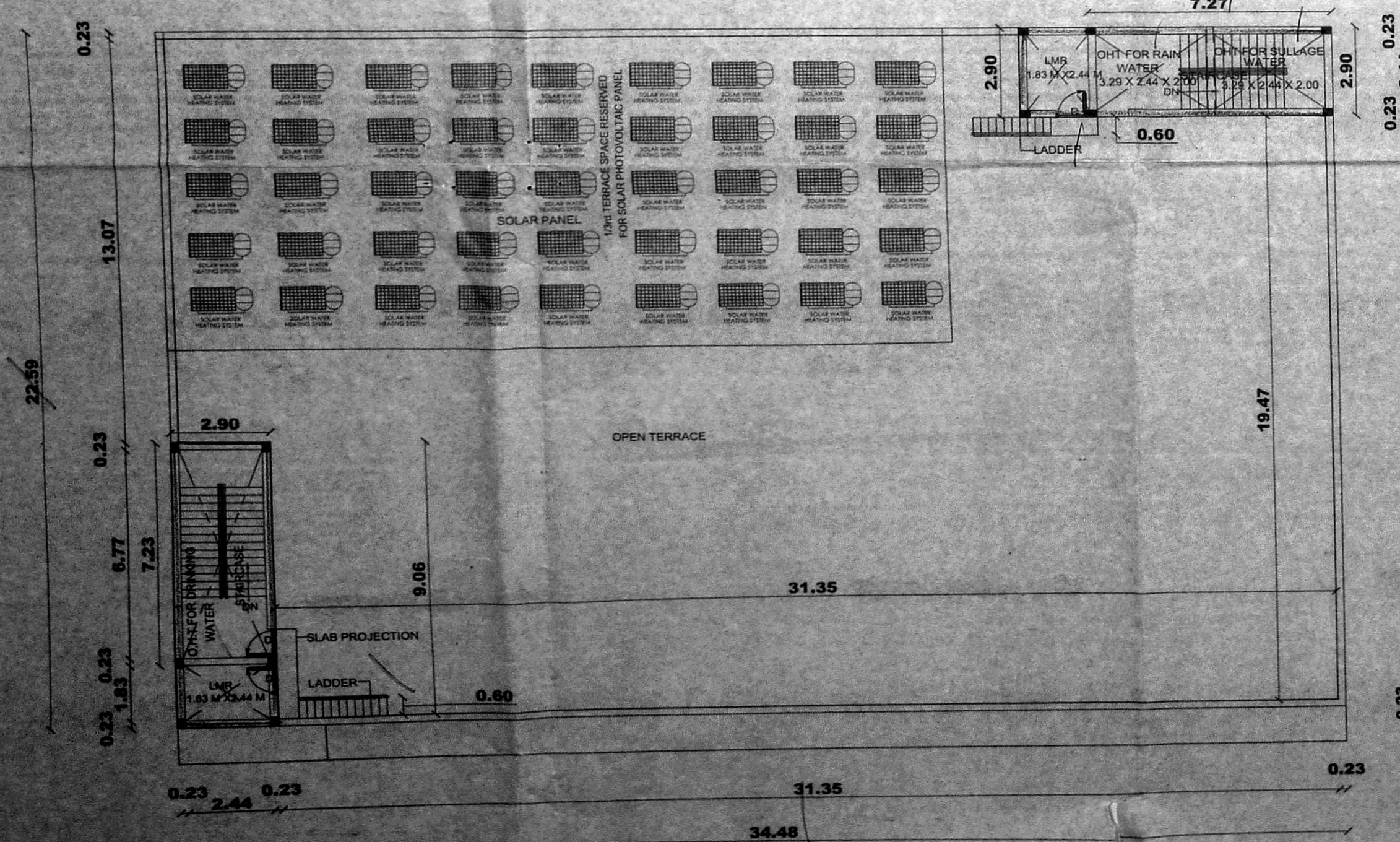
Cross Section of Rain Water Harvesting System

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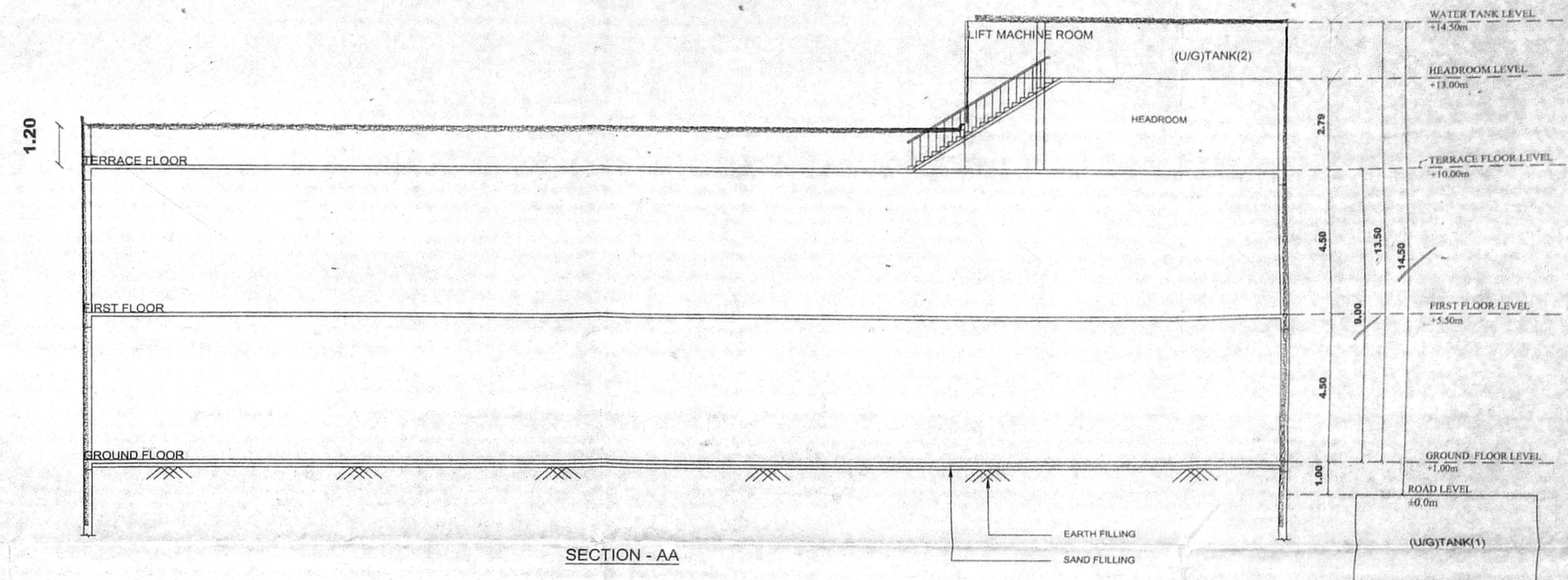
PLAN SHOWING THE PROPOSED
அலுவலகப் படி
CONSTRUCTION OF COTTAGE
INDUSTRIAL BUILDING AT EAST COAST
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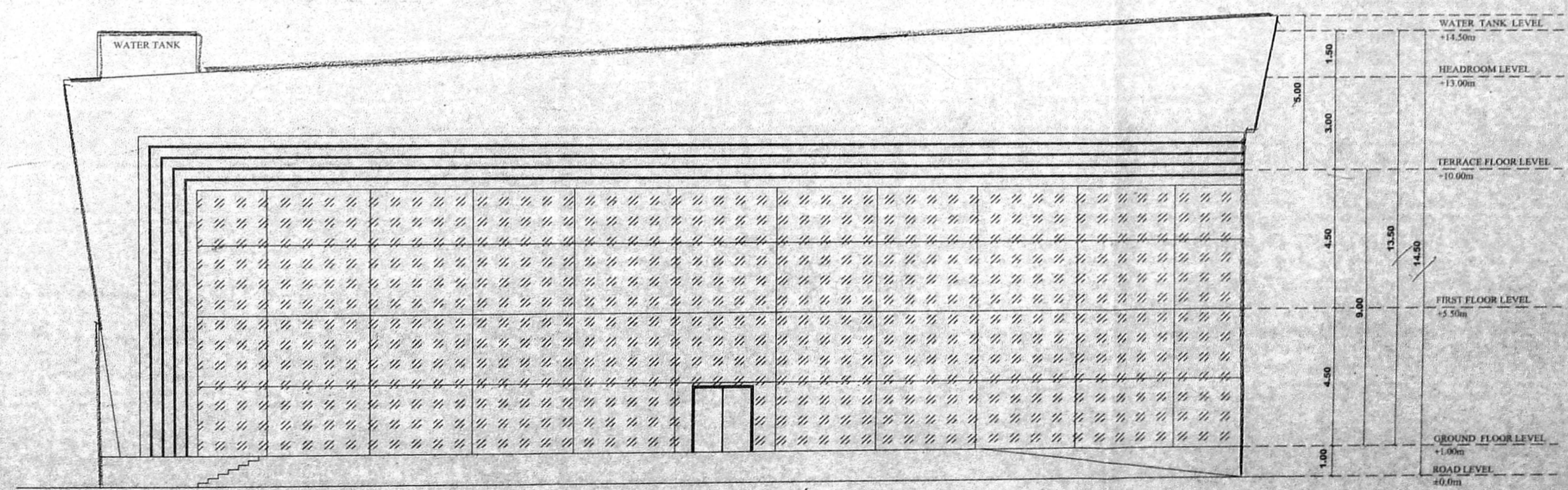
FIRST FLOOR PLAN



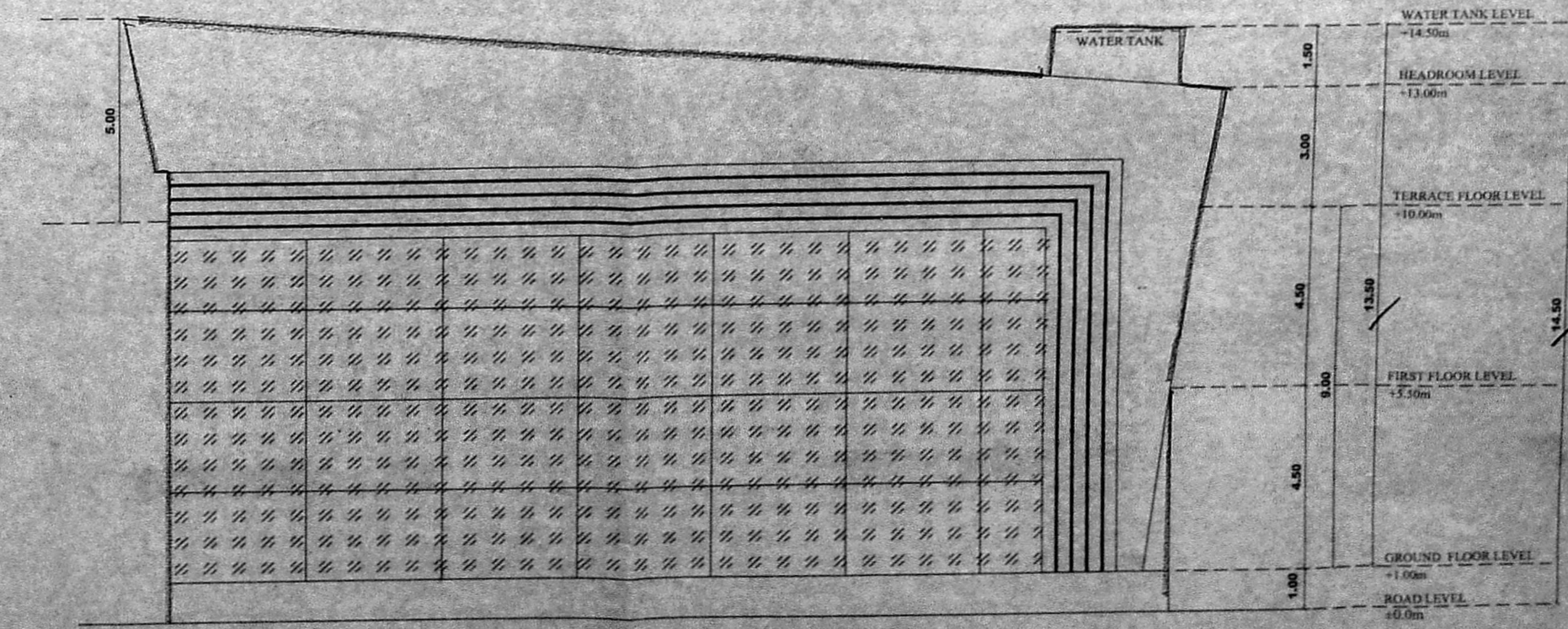
TERRACE FLOOR PLAN



SECTION - AA



WEST SIDE ELEVATION



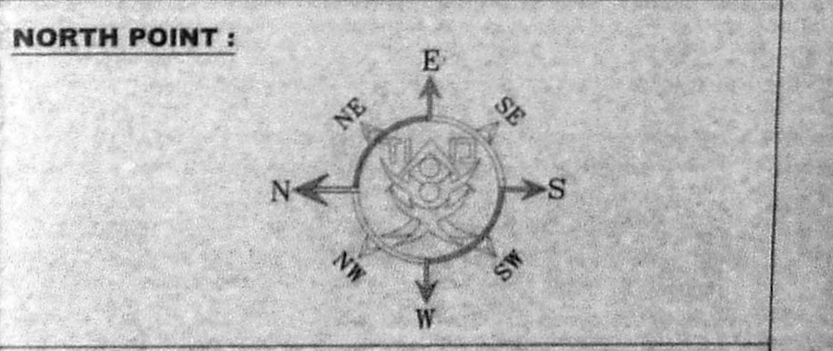
SOUTH SIDE ELEVATION

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PROPOSAL COLOUR	<input type="text"/>

SCALE : 1 in 100



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APPLICANT SIGNATURE

M. S. Chandrasekaran

சென்னை மாநகராட்சி
 துறை: 2214/2021

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 துறை: 2214/2021

ARCHITECT SIGNATURE :

A. D. R. Sundar

A. D. R. SUNDAR, B.A.,
 ARCHITECT
 No. 174, N.S.R. Road,
 Villupuram, Chennai - 600 082.