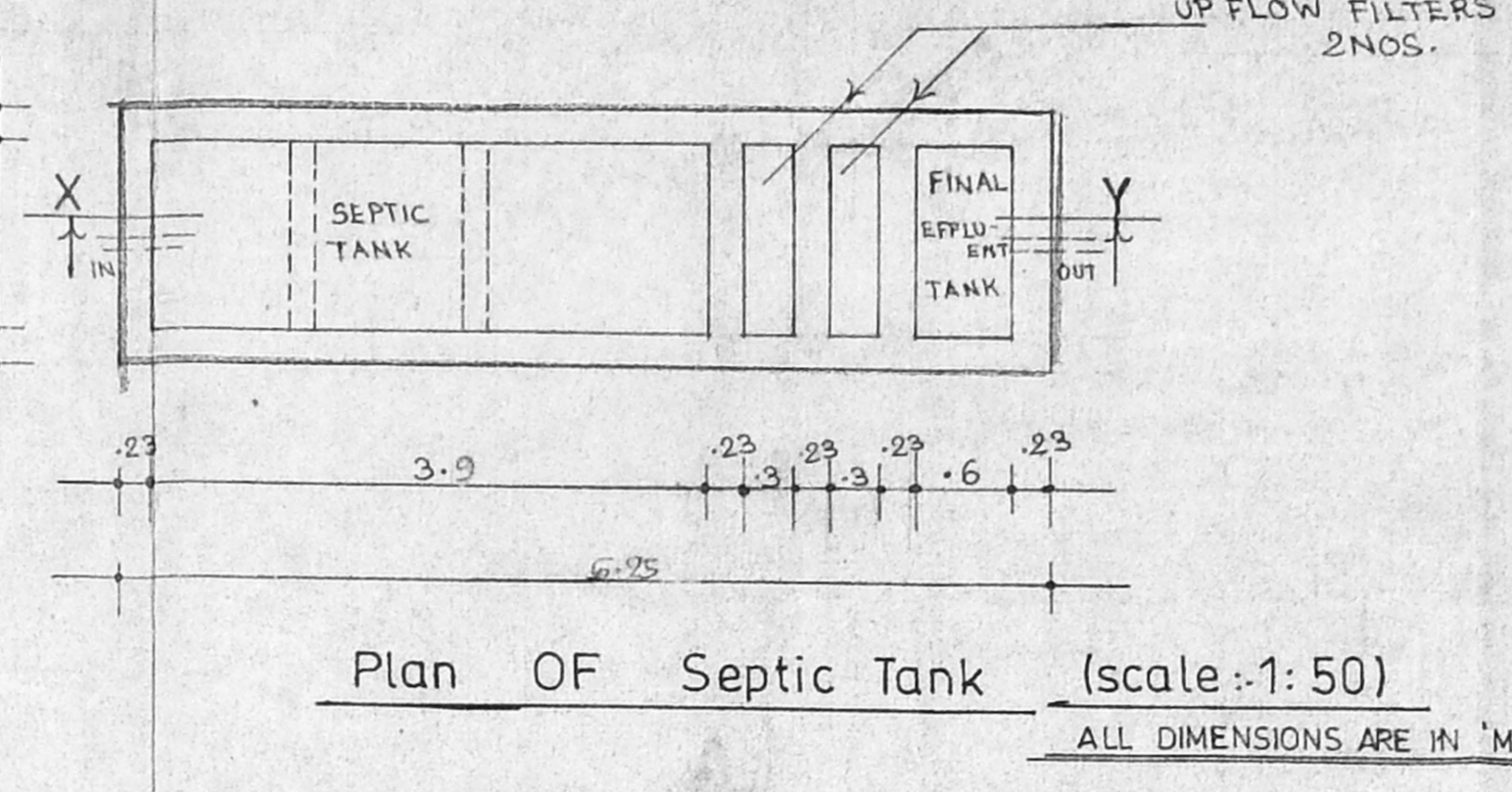
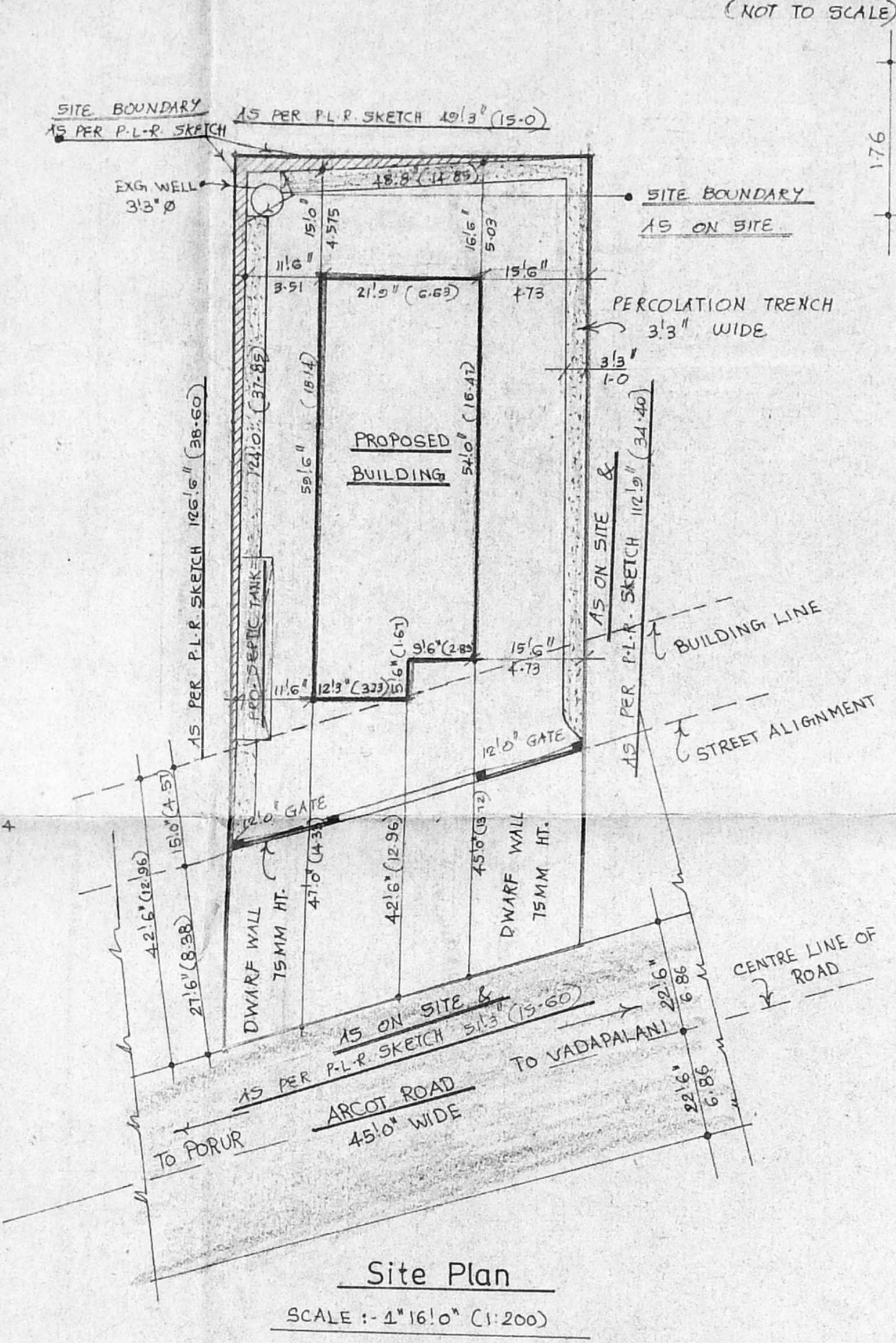
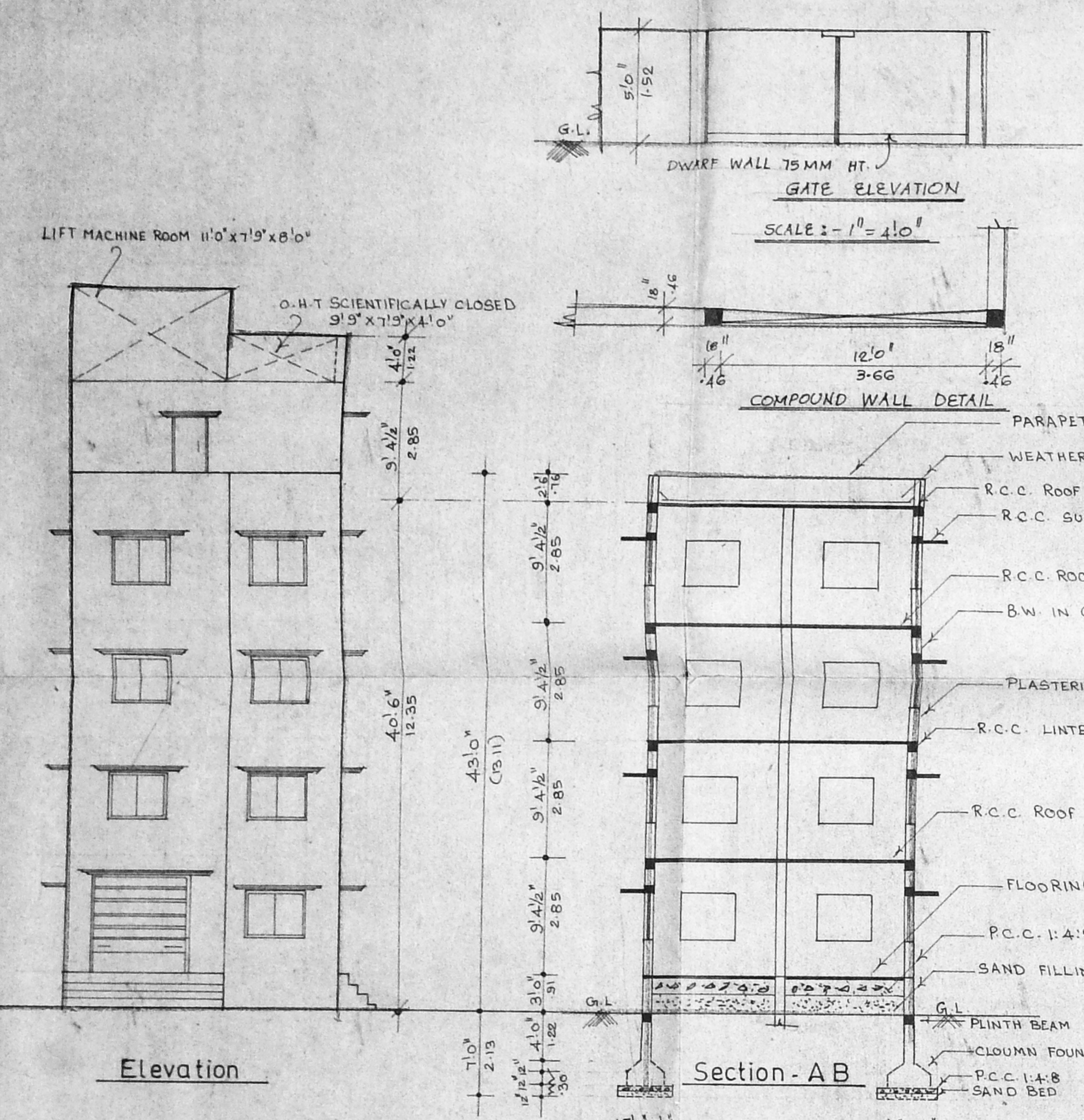
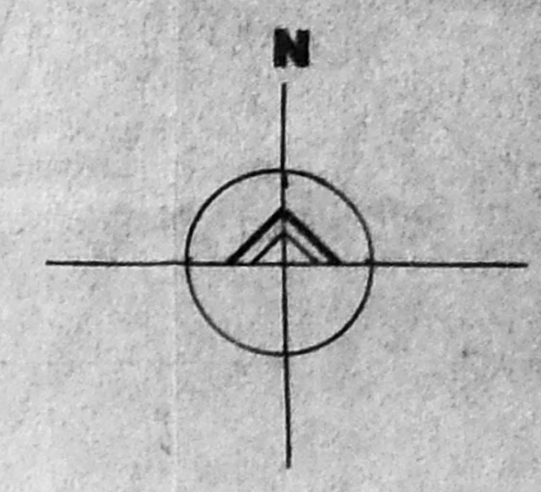


PLAN SHOWING THE PROPOSED DEPARTMENTAL STORE AND RESIDENTIAL FLATS BUILDING AT PLOT No:113, OLD S.No:116/2, R.S.No: 116/5, (PATTAS.No:116/417) OF ALWARTHIRU NAGAR, VALASARAVAKKAM VILLAGE & TOWN PANCHAYAT, AMBATTURE TALUK, THIRUVALLURE DISTRICT.

Scale: 1"=8.0" (1:100)

Lay out approved vide L.R.D.M./ D.T.P. No:47/68



Design of Septic Tank
(TWO UP FLOW FILTERS)

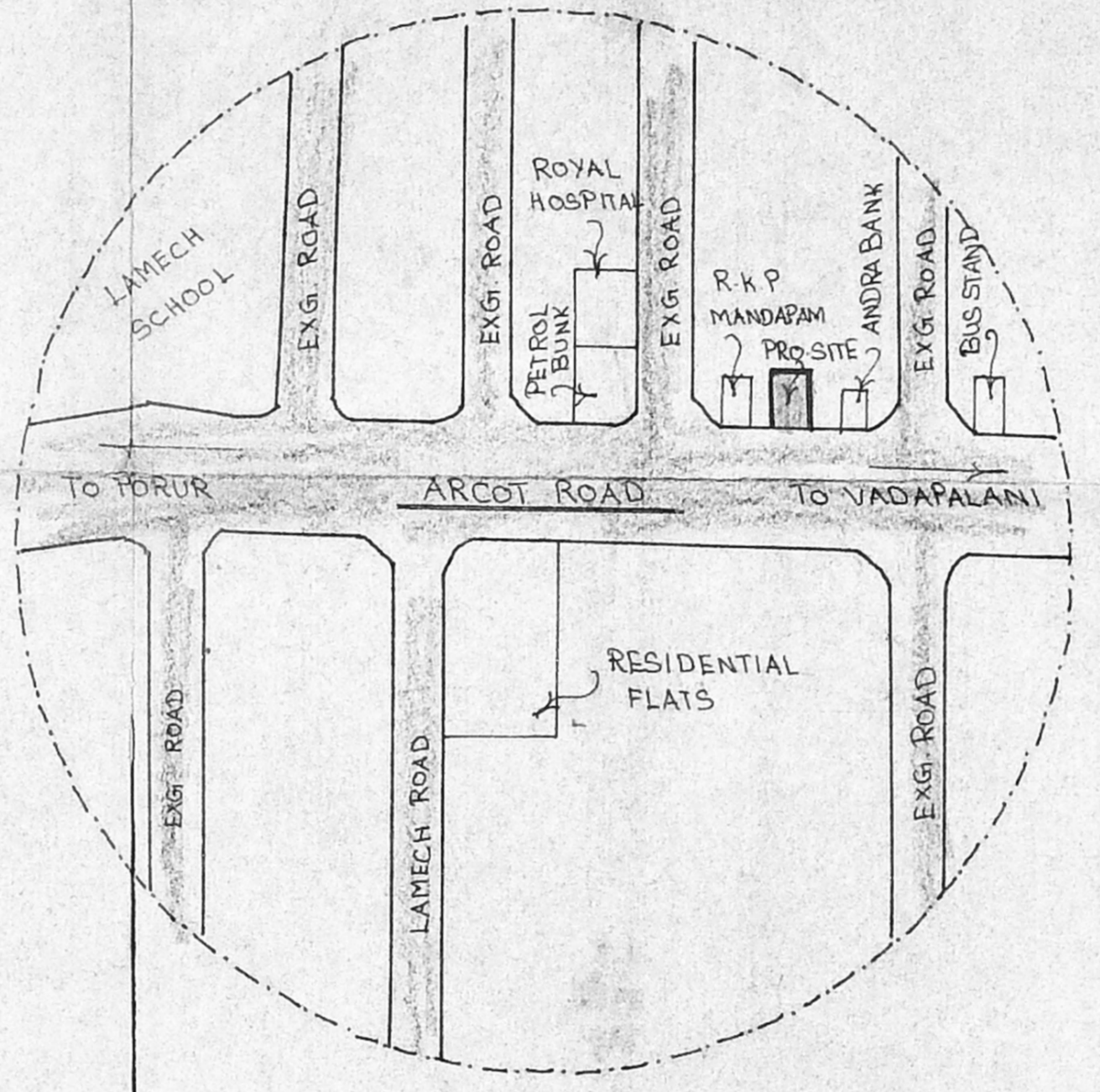
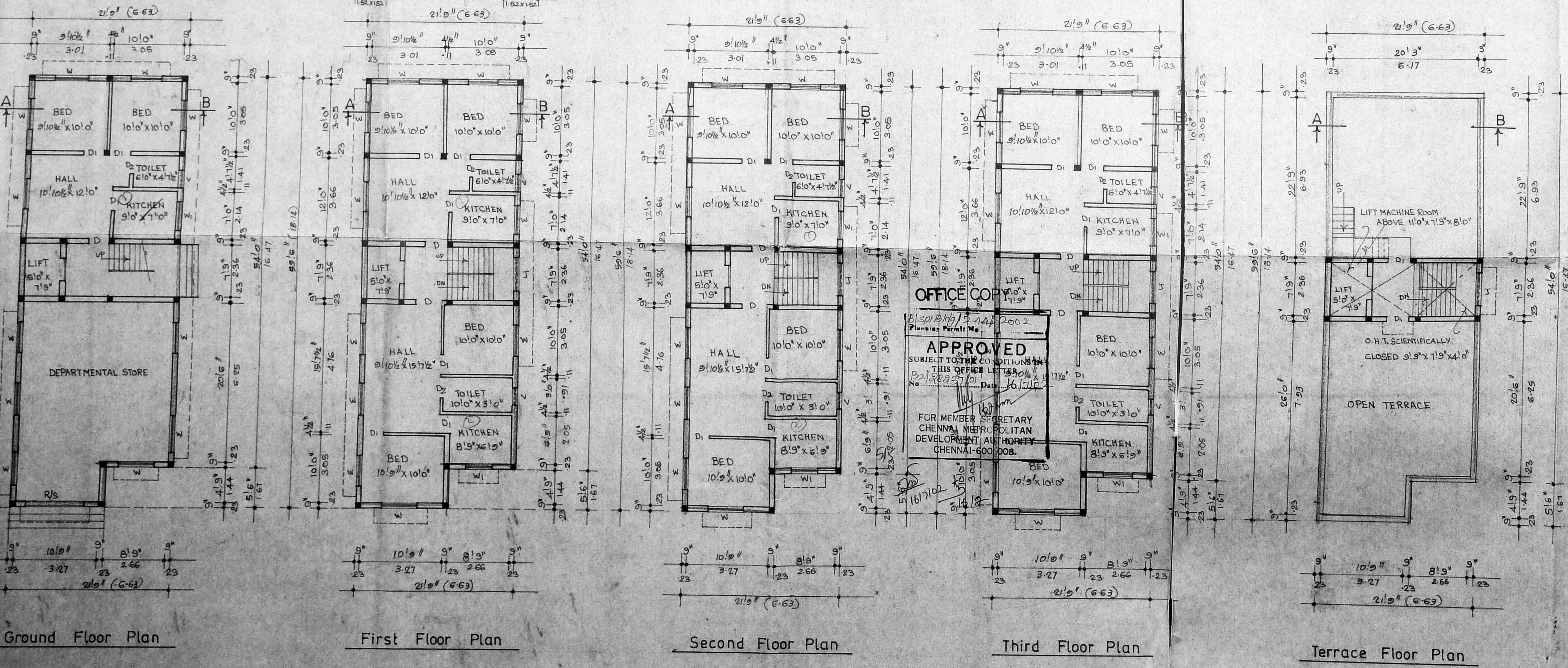
No. of DWELLING = 8 NOS. 7 d.u + 1 dept. store
 NO. OF USERS = 8 X 5 = 40 NOS.
 RATE OF WATER SUPPLY = 150 LPH / DAY
 FLOW OF SEWAGE/ DAY = 40 X 150 = 6000 LTS
 DETENTION PERIOD = 18 HOURS
 TANK CAPACITY = 6000 X 18/24 = 4500 LTS = 4500 LTS

THE TANK IS TO BE CLEANED EVERY YEAR. = 40 X 15 = 600
 SO SLUDGE STORAGE CAPACITY AT THE = 6000 + 600
 RATE OF 15LTS./PERSON/YEAR = 6600 LTS

WITH PROVISION FOR FUTURE EXPANSION, LET THE TOTAL TANK CAPACITY BE = 9000 LTS
 SEPTIC TANK HAVING THE CAPACITY OF = 9m³
 DEPTH OF LIQUID IS = 2m
 THE RATIO OF LENGTH TO WIDTH OF TANK BE = 3
 LENGTH X BREADTH = 9/2 = 4.5 X 3 = 13.5m²
 BREADTH OF TANK = 1.3m
 LENGTH OF TANK = 3.9m
 FREE BOARD OF TANK = 0.4m
 TOTAL DEPTH OF TANK = 2.0 + 0.4 = 2.4m
 ∴ PROVIDE SEPTIC TANK OF SIZE = 3.9m X 1.3m X 2m

UP FLOW FILTER

DISCHARGE OF 100 PERSONS = 15000
 VOLUME = 100 X 45 = 4500 LTS (4.5m³)
 DEPTH = (1.10 - 0.30) = 0.80m
 AREA REQUIRED = 4500/80 = 0.6m²
 SIZE OF FINAL EFFLUENT TANK = 0.6 X 1.2 X 1.1
 UP FLOW FILTER (2 NOS) EACH OF - SIZE = 0.3 X 1.2 X 0.8m



Reference

R/S	- ROLLING SHUTTER	- 10'0" X 8'0" (3.05 X 2.44)
D	- DOOR	- 3'3" X 7'0" (1.00 X 2.14)
D1	- DOOR	- 3'0" X 7'0" (0.91 X 2.14)
D2	- DOOR	- 2'6" X 7'0" (0.76 X 2.14)
W	- WINDOW	- 5'0" X 4'0" (1.52 X 1.22)
W1	- WINDOW	- 4'0" X 4'0" (1.22 X 1.22)
V	- VENTILATOR	- 3'0" X 2'0" (0.91 X 0.61)
J	- R.C.C. JALLY	- 5'0" X 5'0" (1.52 X 1.52)

Area detail

PLOT AREA:	5981.0 SFT (556.19 m ²)
GROUND FLOOR AREA:	1242.0 SFT (115.38 m ²)
FIRST FLOOR AREA:	1242.0 SFT (115.38 m ²)
SECOND FLOOR AREA:	1242.0 SFT (115.38 m ²)
THIRD FLOOR AREA:	1242.0 SFT (115.38 m ²)
TOTAL FLOOR AREA:	4968.0 SFT (461.52 m ²)
COVERAGE:	20.74% F.B.I = 0.822

Legend

PROPOSED	- (Symbol)
BOUNDARY	- (Symbol)

Balo Rajaram
 Owner

M. KARUNIBYAN
 NO. 106, AGATHAR STREET,
 ALWARTHIRU NAGAR,
 CHENNAI-600087
 Licensed surveyor