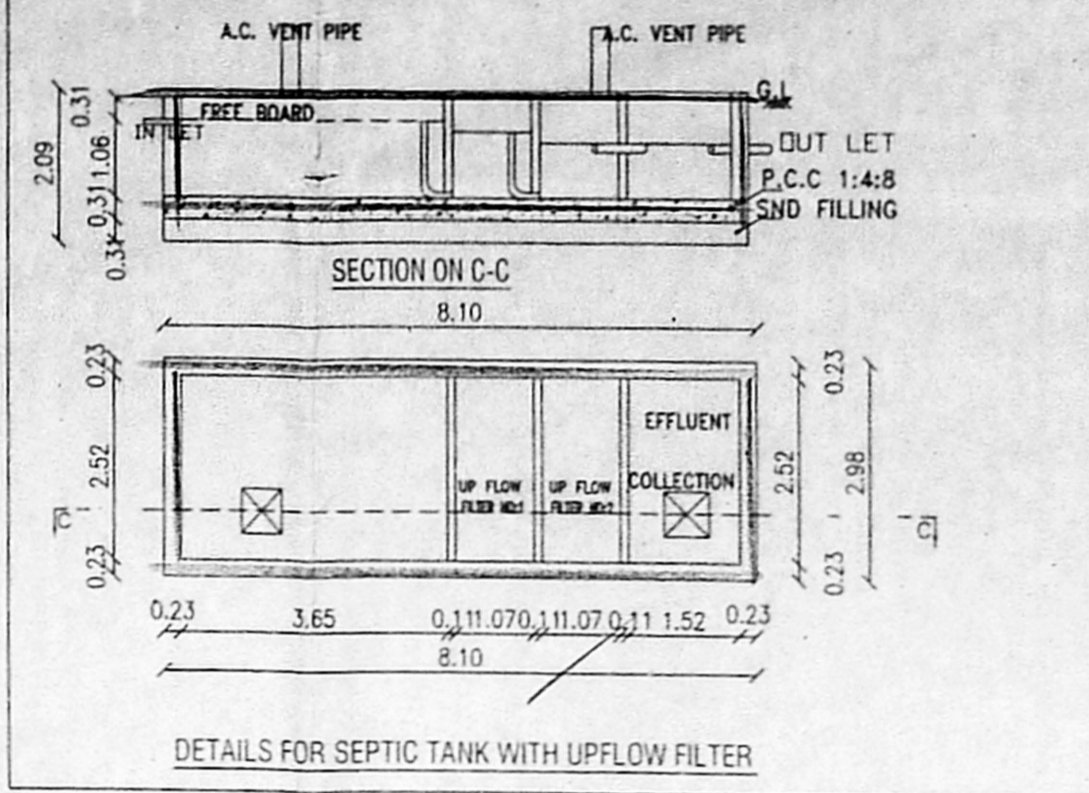


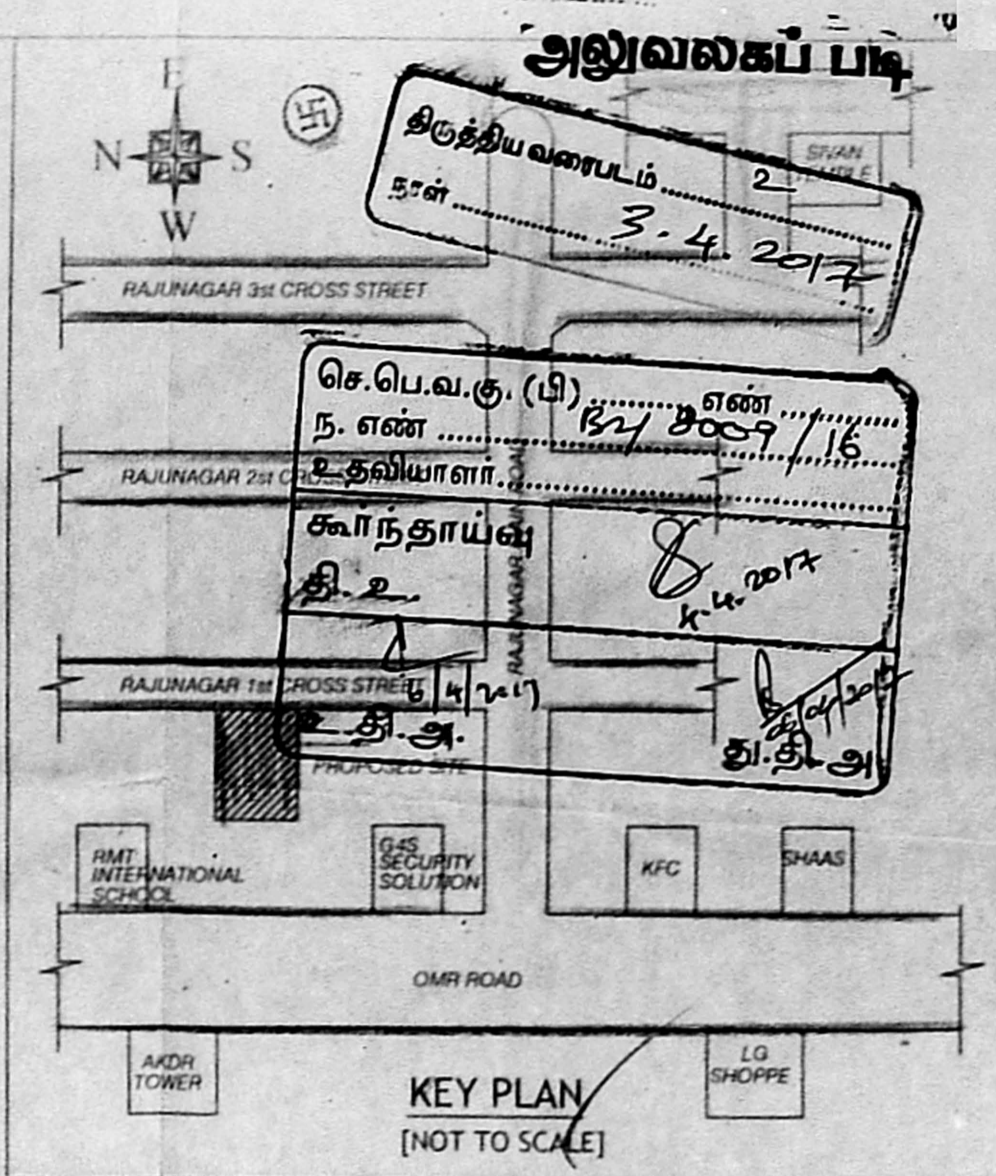
ELEVATION

SECTION A-A

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER
 RESIDENTIAL DWELLING UNIT = 8 NOS.
 NO OF USERS = 8 X 5 = 40 Nos.
 FIXTURE UNIT PER DWELLING = 2 X 8 = 16 Nos.
 TOTAL NO OF FIXTURE UNIT = 2 X 8 = 16 Nos.
 ASSUME A PEAK FACTOR OF 6LPM/FIXTURE UNIT
 SEPTIC TANK = 2X40=80LPM
 SURFACE AREA REQUIRED = 90 X 0.92 = 9.20M²
 VOLUME OF FREE BOARD = 9.20 X 0.30 = 2.76M³
 VOLUME OF SEDIMENTATION = 9.20 X 0.30 = 2.76M³
 VOLUME OF DIGESTION = 40X0.032 = 1.28M³
 VOLUME OF SLUDGE = 40X365X0.0002 = 2.92M³
 TOTAL VOLUME = 9.72M³
 DEPTH OF SEPTIC TANK 9.72/9.20 = 1.06
 PROVIDING L X B = 2.5:1
 SIZE OF SEPTIC TANK = 3.05M X 2.52 X 1.06
 UPFLOW FILTER
 CAPACITY PEAK GRAVITY = 8 X 0.045 = 0.36M³
 ASSUME DEPTH = 0.80M
 HENCE AREA OF FINAL EFFLUENT SUMP = 0.36/0.80 = 0.288M²
 SIZE OF FINAL EFFLUENT SUMP = 2.52X1.64X0.80M
 SIZE OF UPFLOW FILTER-1 = 2.52X1.07X1.30M
 SIZE OF UPFLOW FILTER-2 = 2.52X1.07X1.30M



DETAILS FOR SEPTIC TANK WITH UPFLOW FILTER



KEY PLAN [NOT TO SCALE]

SPECIFICATION:
 FOUNDATION - RCC COLUMN FOOTINGS
 BRICK WORK - C M 1:6 FOR SUPER STRUCTURE
 PLASTERING - C M 1:5 FOR WALLS & 1:3 FOR CEILING
 FLOORING - MOSAIC FLOORING
 CEMENT PAINT - TWO COATS FOR WALLS & ONE EXTRA COAT FOR CEILING
 R.C.C - M25 GRADE FOR ALL CONCRETE WORKS
 WOOD WORK - ALL WOOD WORKS IN BEST QUALITY TIMBER
 WEATHERING COURSE - AS PER NATIONAL BUILDING CODE

AREA STATEMENT

PLOT EXTENT (DOC.) /LEAST AREA	445.93
PLOT EXTENT (PATTA)	450.00
PLOT EXTENT (SUPERIMPOSED)	448.62

FLOOR	5% BALCONY AREA (NON F.S.I)	NET F.S.I AREA
FIRST FLOOR	7.78	165.96
SECOND FLOOR	7.78	165.96
THIRD FLOOR	7.78	165.96
FOURTH FLOOR	7.78	165.96
TOTAL	31.12	663.84

F.S.I = 1.489

COLOUR INDEX	SCHEDULE OF JOINERY
PROPOSED	D DOOR - 1.00X2.13
ROAD	D1 DOOR - 0.90X2.13
BOUNDARY	D2 DOOR - 0.75X2.13
	W WINDOW - 1.20X1.22
	W1 WINDOW - 1.50X1.22
	V VENTILATOR - 0.90 X 0.60

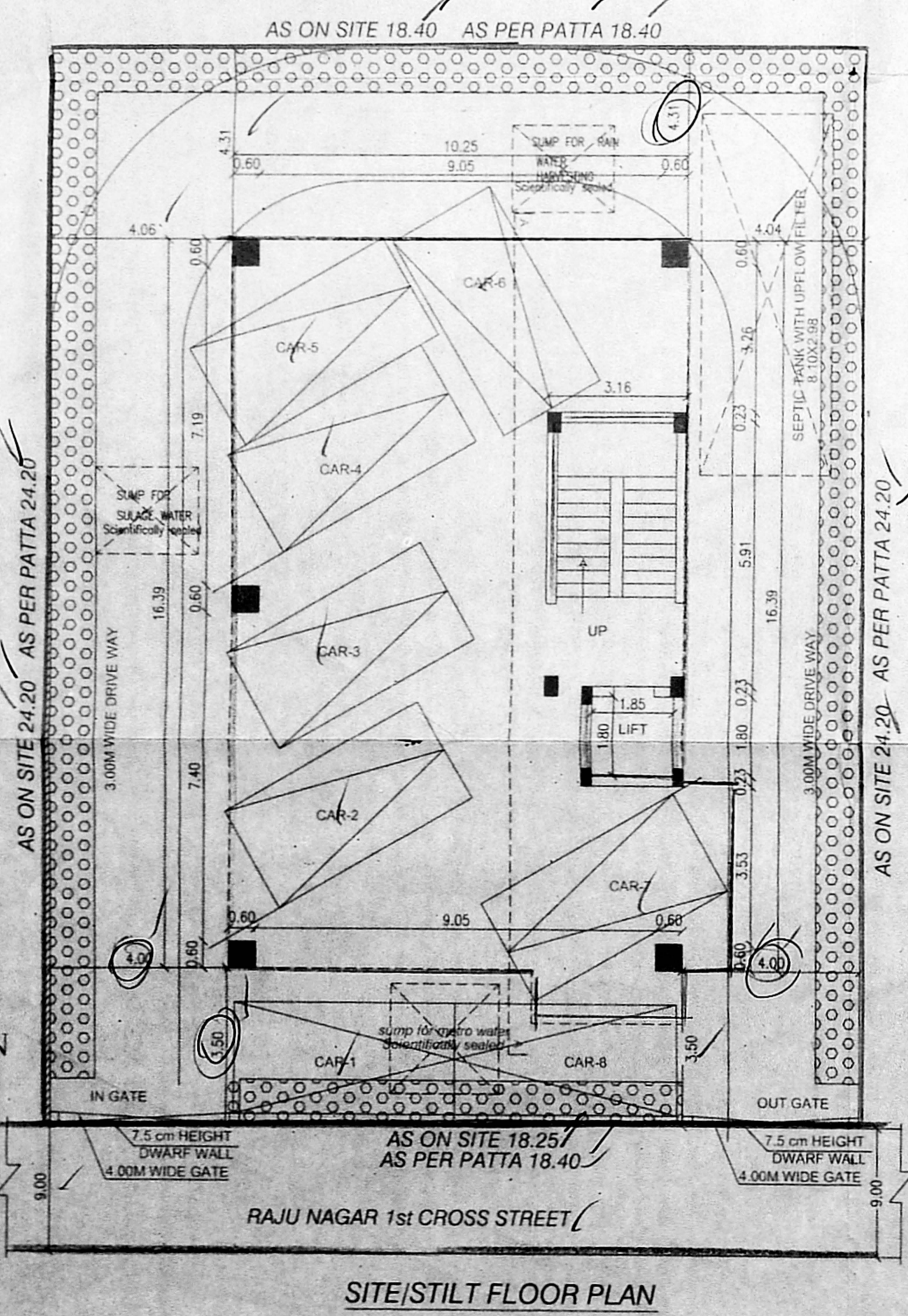
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING AT PLOT NO.18, RAJU NAGAR, FIRST CROSS STREET, OKKIYAM THURAIPAKKAM, CHENNAI-92 IN OLD S.NO. 213 PART, NEW S.NO. 213/100, OF OKKIYAM THURAIPAKKAM, VILLAGE, SHOLINGANALLUR, TALUK, GREATER CHENNAI CORPORATION. DIVISION - 194 ZONE - XV

MEASUREMENTS ARE IN METRES

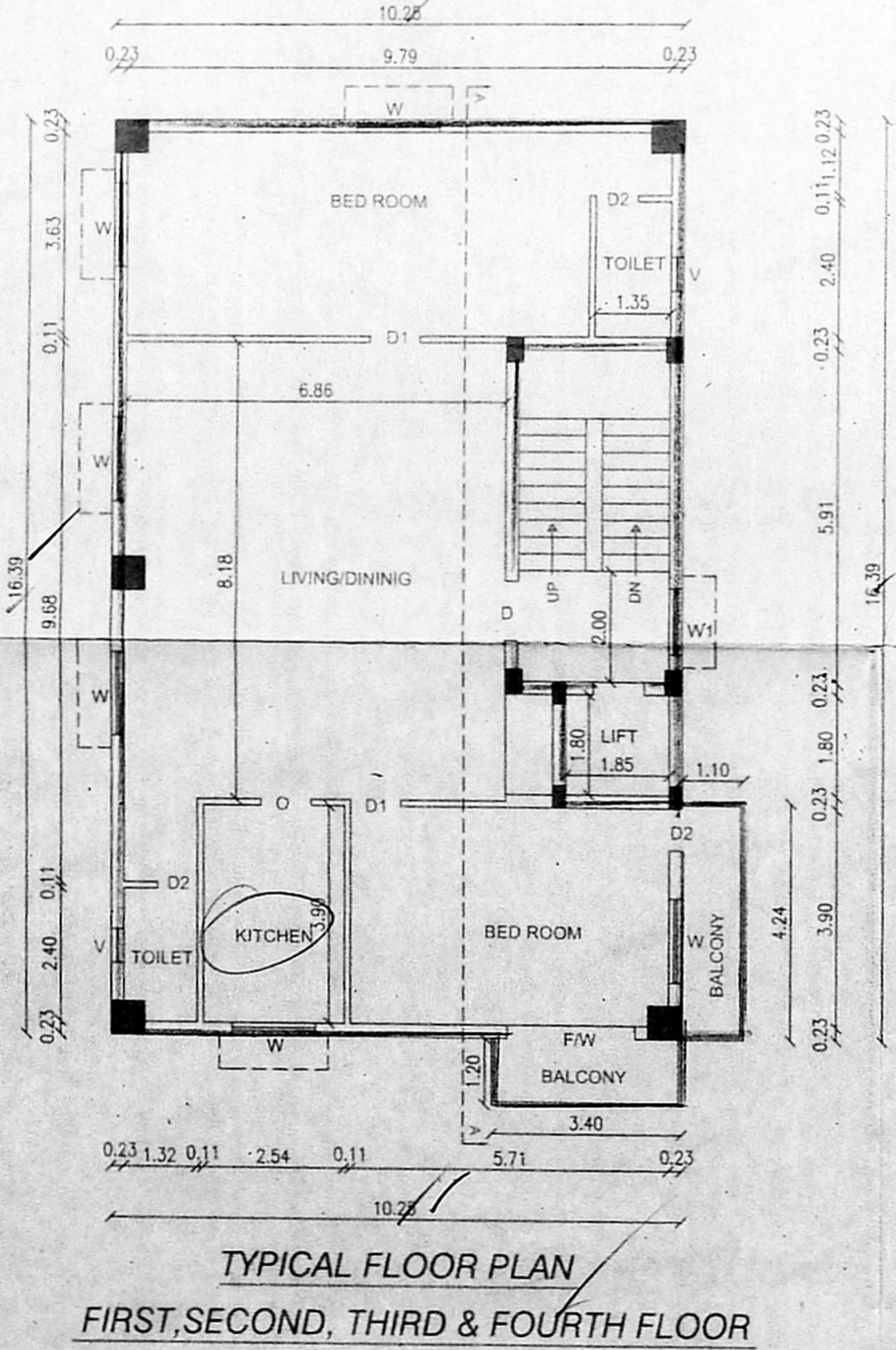
OWNER SIGNATURE

S.SENTHILKUMAR-ARCHITECT
 CA/2000/25773
 D.No:28/23, Srinivasa Perumal Sanathi, 11/2 Street,
 Royapettah, Chennai-600 014
 Cell:99403 26681

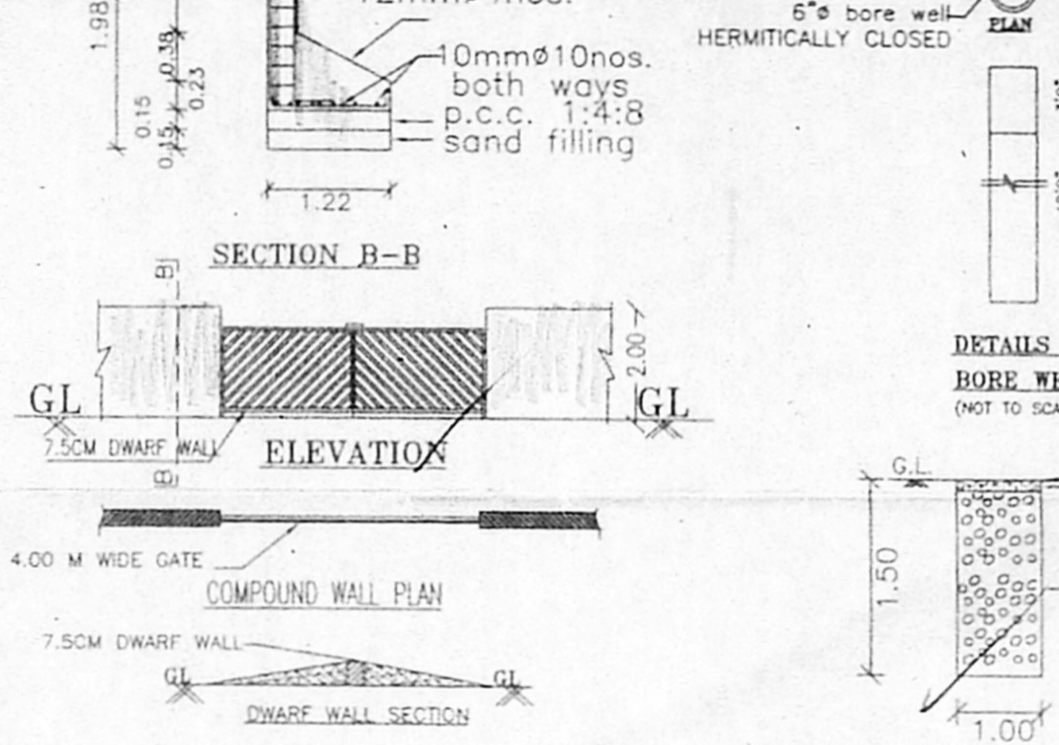
LICENSED SURVEYOR



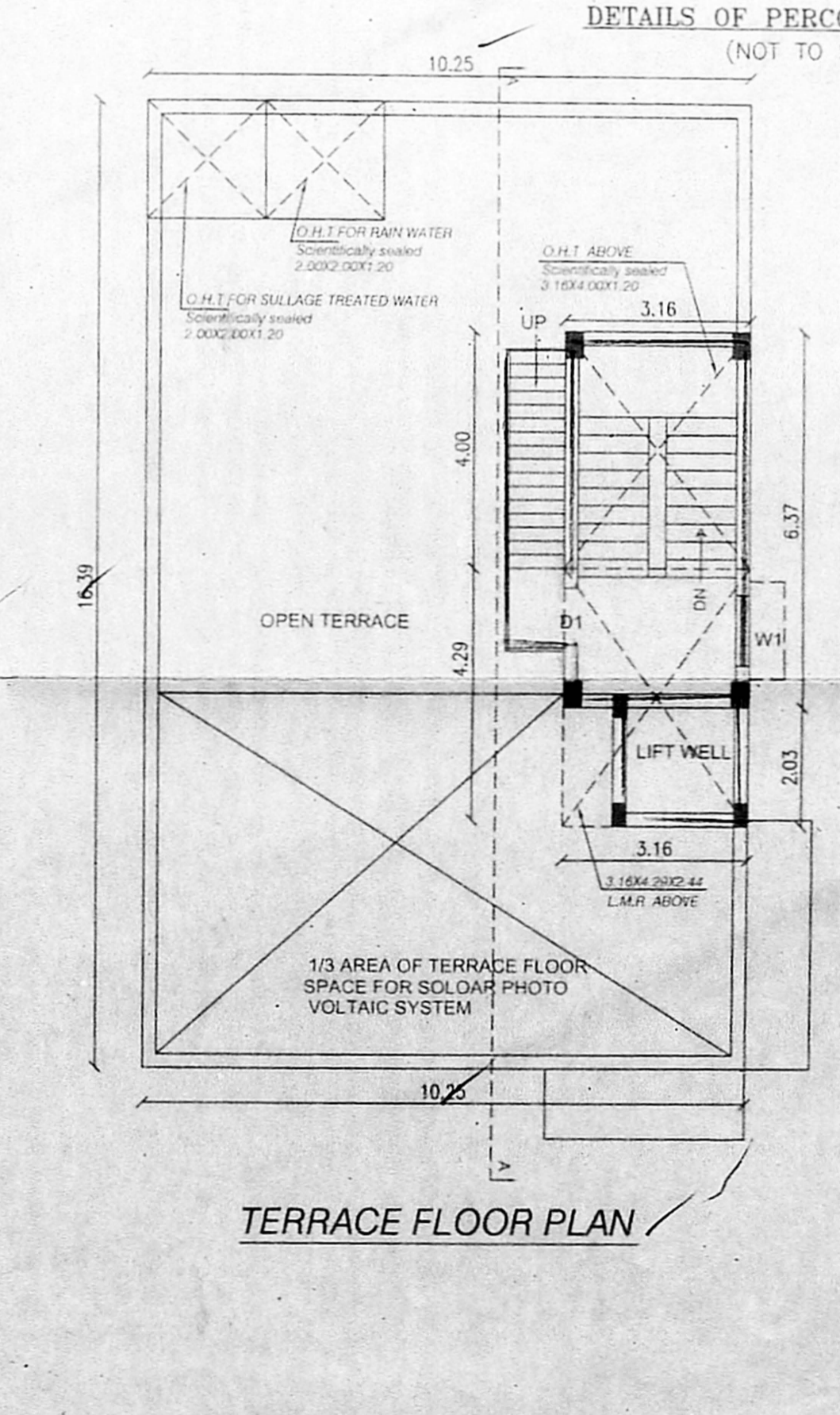
SITE/STILT FLOOR PLAN



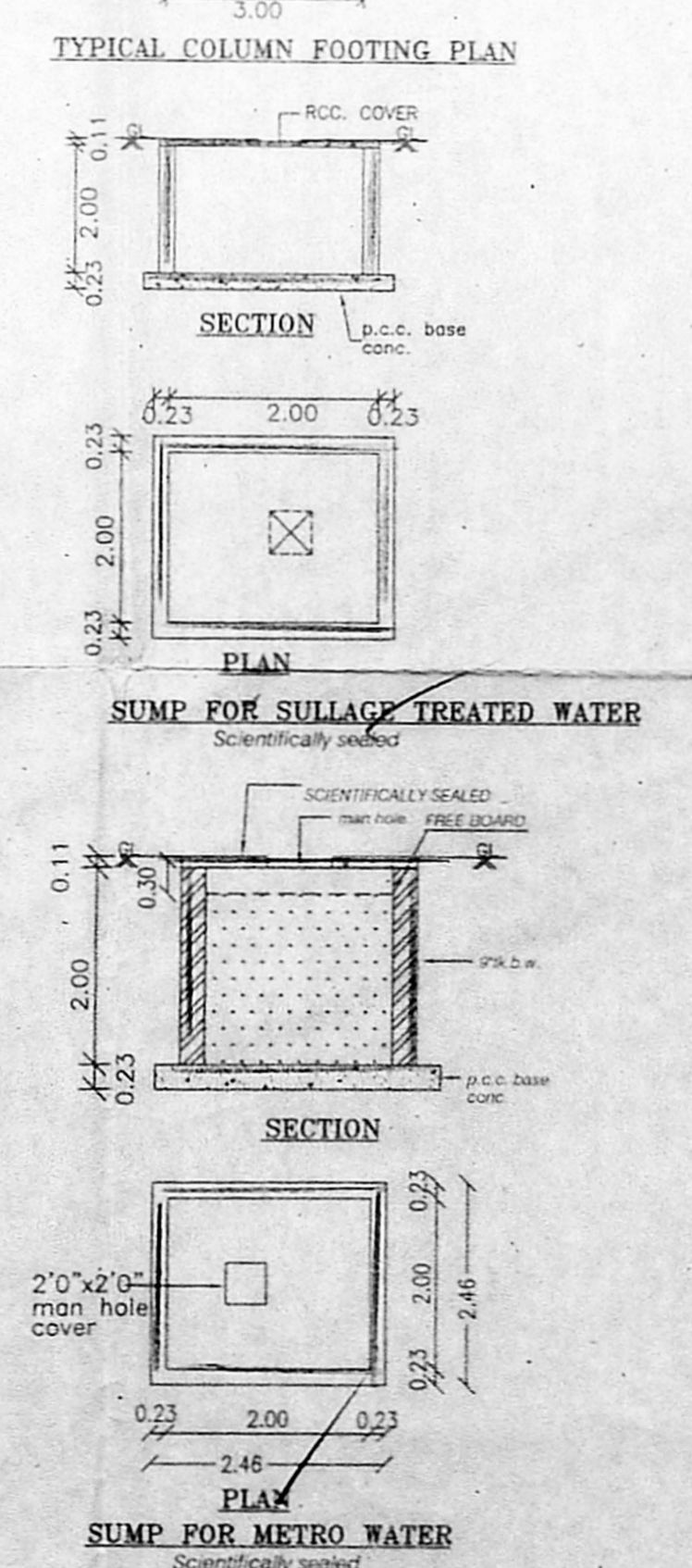
TYPICAL FLOOR PLAN FIRST, SECOND, THIRD & FOURTH FLOOR



DETAILS OF PERCOLATION TRENCH (NOT TO SCALE)



TERRACE FLOOR PLAN



SUMP FOR SULLAGE TREATED WATER

SUMP FOR METRO WATER