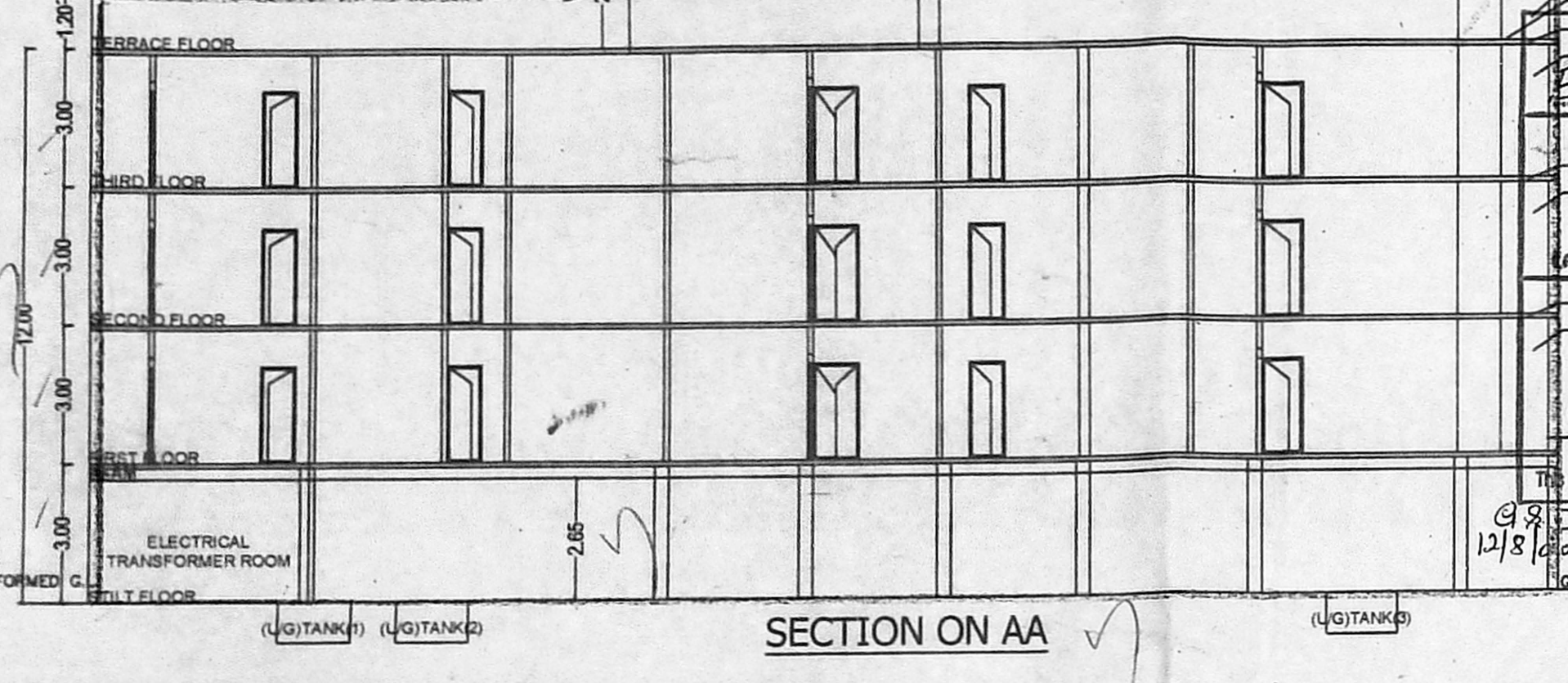
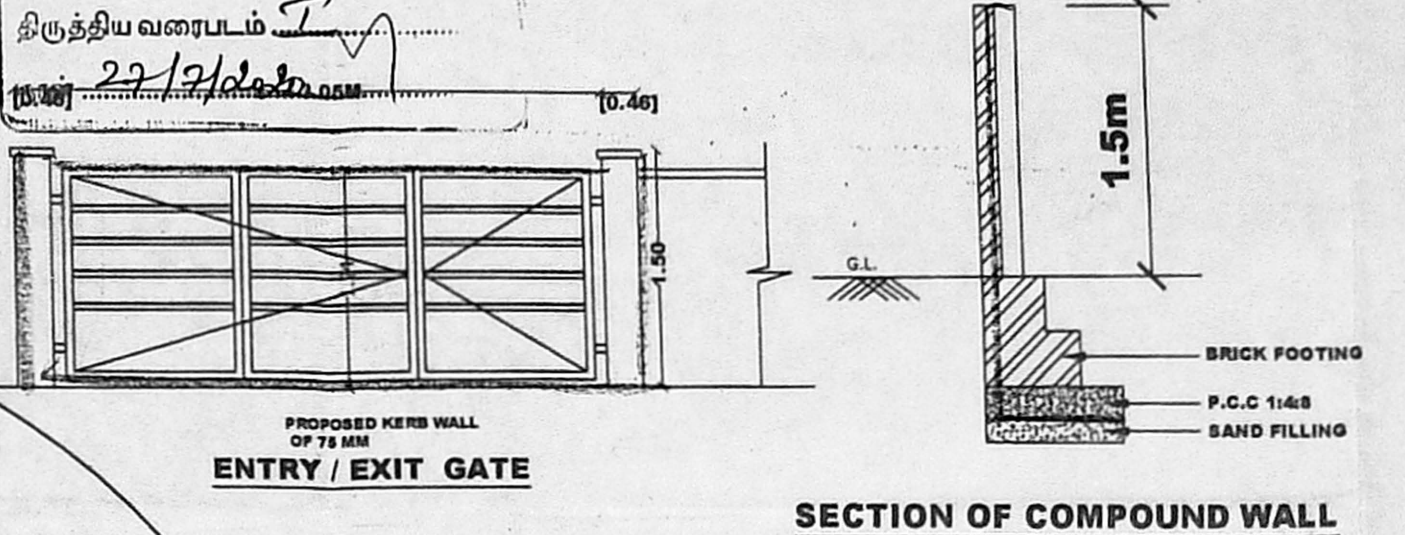
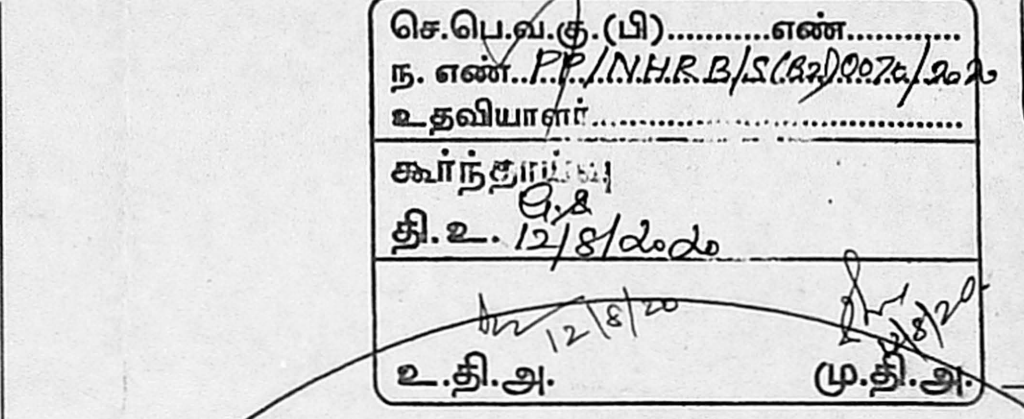
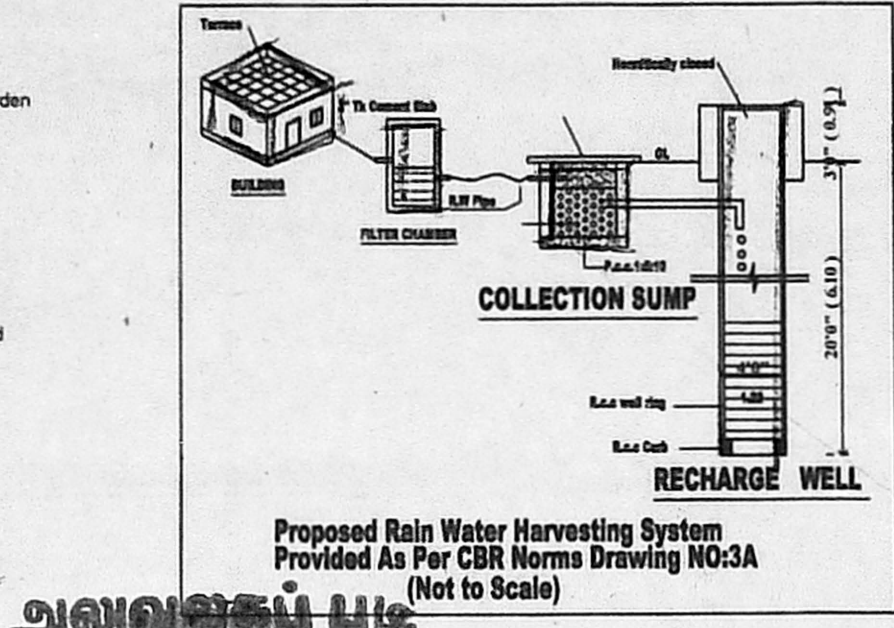
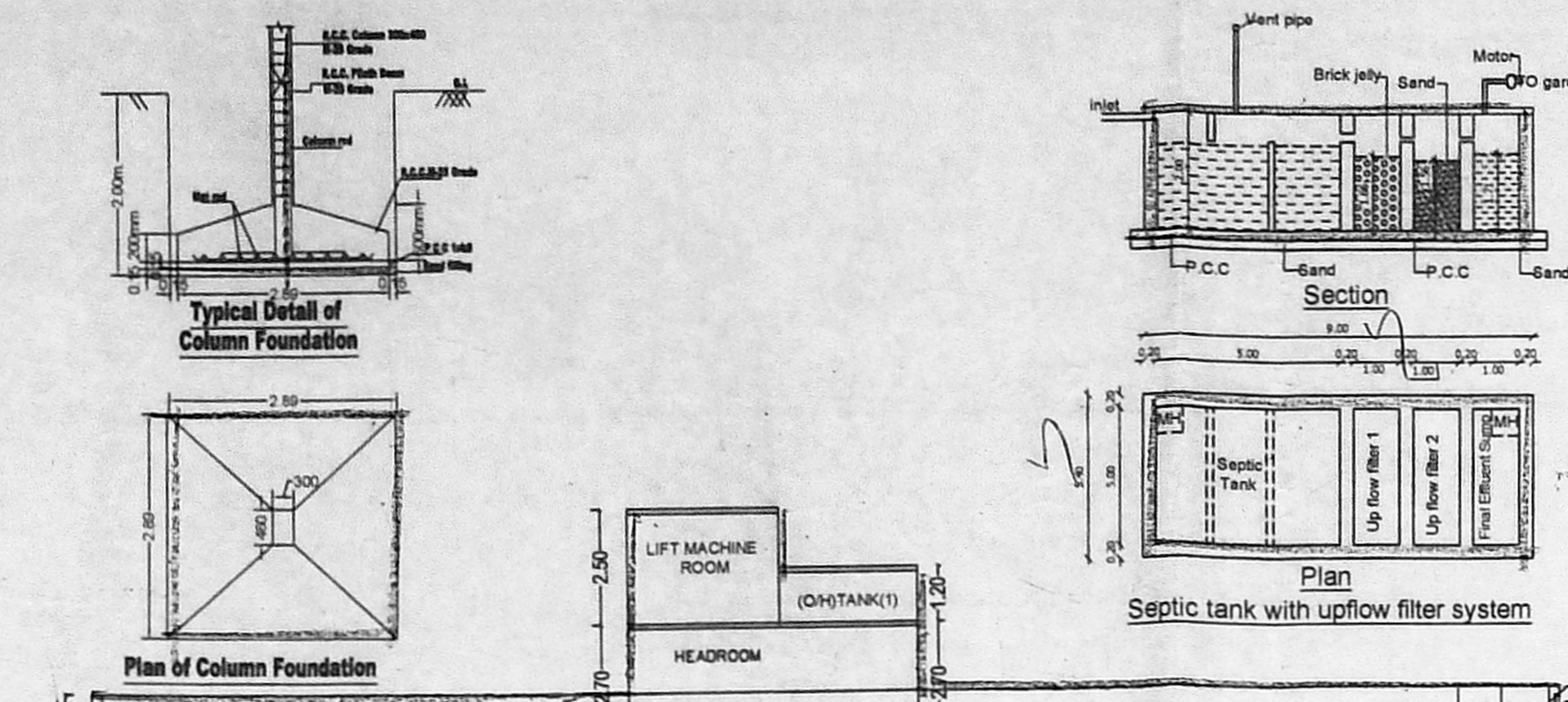


PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING AT PLOT NO :9,10 & 11, MUGALIVAKKAM MAIN ROAD & KARBAGAMBAL NAGAR ROAD, MUGALIVAKKAM, CHENNAI - 600 089. COMPRISED IN OLD S.NO:174/1(PART) (AS PER DOCUMENT), T.S.NO : 174/16,17,18 (AS PER PATTI) OF MADANANDAPURAM VILLAGE WITH IN . GREATER CHENNAI CORPORATION ZONE : 12 DIV:158.



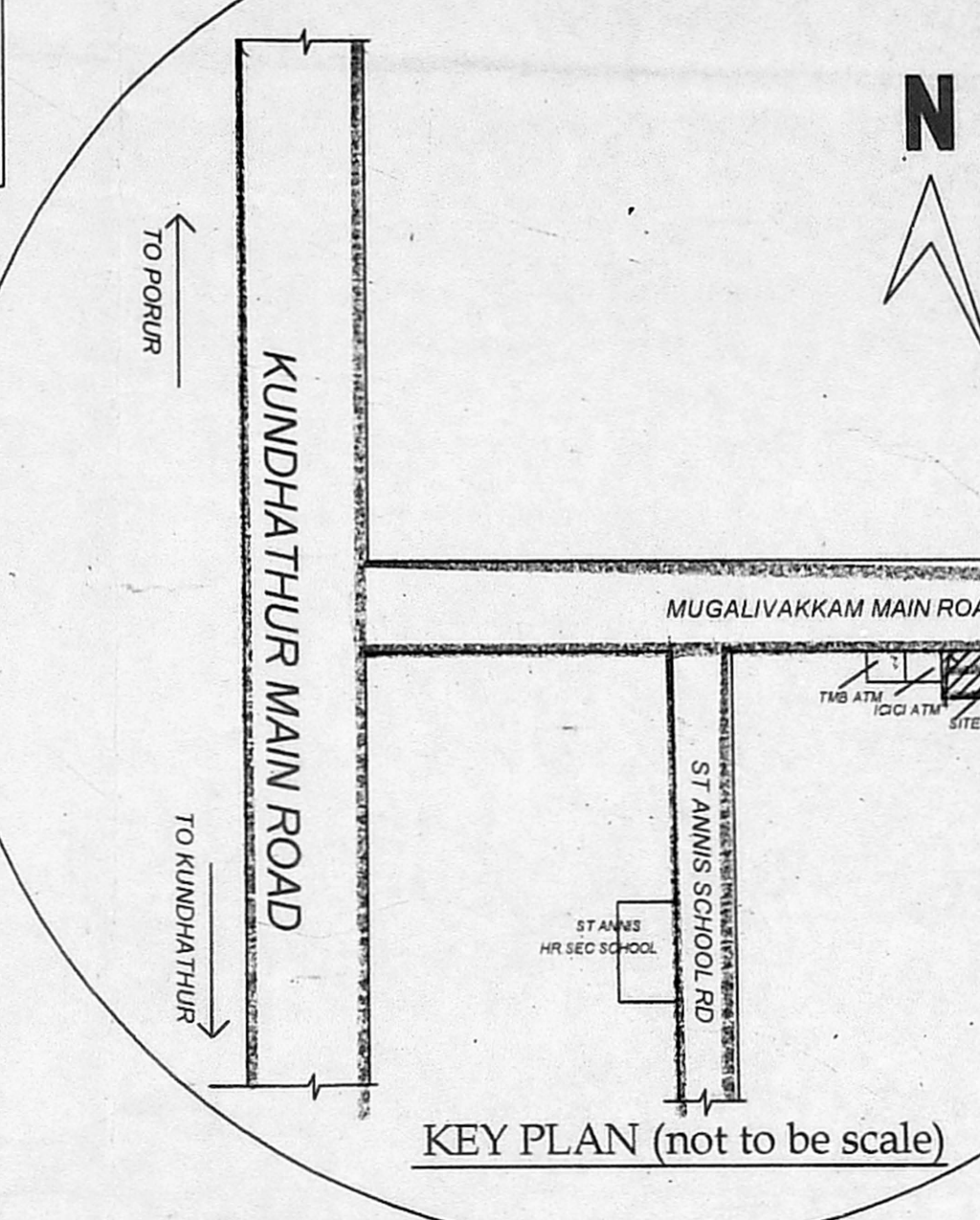
Planning Permission No. **B/NHRB/251/2020**

APPROVED

Subject to conditions mentioned in this office letter No. P/NHRB/13/20/2020 dated 12.03.2019

For Chief Planner
Non High Rise Buildings
Chennai Metropolitan Development Authority
Chennai-600 008.

This approval is valid only after Building Permit is issued by the concerned Local Body



Septic Tank With Up Flow Filter Calculation For Residential Apartment

No of Flats	15 Nos.
No of users	75 Nos.
Total No of users	75 Nos.
assume a standard users	50 Nos.
Total no of fixture units assume a peaking factor of 0.1pm fixture unit	50 x 6 Liters = 250 liter per minutes
SEPTIC TANK	
Surface area required for the septic tank	250 x 0.92 = 23 sq.m Say 25 sq.m
Volume of free board	25.00 x 0.30m = 7.5 cu.mt
Volume of sedimentation	25.00 x 0.30m = 7.5 cu.mt
Volume of digestion	75 x 0.033 = 2.50 cu.mt
Volume of sludge	75 x 365 x 0.0002 = 6.02 cu.mt
Total volume	23.52 cu.mt.
Depth of Septic tank	volume 23.52 Surface area 25.00 0.94m Say 1.00m
Initial pipe invert level assuming a Gradient of 1 in 8 starting from first chamber	0.60m
Total Liquid Depth	1.00m + 0.60m
Required size of septic tank	5.00m x 5.00m x 2.00 m
UPFLOW FILTERS	
Capacity for 50 users	50 x 0.045 = 2.25 cu.mt
Depth (assumed)	0.8 (minimum)
Hence area of final effluent sump	2.25 / 0.8 = 2.80 sq.m
Size of final effluent sump	2.80 x 1.00 x 0.80m
Size of up flow filter (1)	2.80 x 1.00 x 0.80m
Size of up flow filter (2)	2.50 x 1.00 x 0.80m

SPECIFICATION

- P.C.C. in 1:4:8 in M-20 Grade
- All R.C.C. work in M-25 Grade concrete
- All external brickwork : 230 mm thk in CM 1.5.
- All internal brickwork : 115 mm thk in CM 1.5.
- Ceiling plastering in CM 1:3. thk in CM 1.5.
- Wall plastering in CM 1:4. thk in CM 1.5.
- Weathering course in brick jelly lime concrete with a finishing course of flat tiles
- The overhead tank is scientifically closed.
- The underground sump is scientifically closed.

SCHEDULE OF JOINERY:-

TYPE	DETAIL	SIZE	SIZE
MD	DOOR	3'3"x7'0"	1.00x2.13
D	DOOR	3'0"x7'0"	0.91x2.13
D1	DOOR	2'6"x7'0"	0.75x2.13
W	WINDOW	6'0"x6'0"	1.80x1.82
W1	WINDOW	4'0"x4'6"	1.22x1.32
KW	KIT. WINDOW	4'0"x3'0"	1.22x0.91
V	VENTILATOR	3'0"x2'0"	0.90x0.60

AREA STATEMENT SQ.M

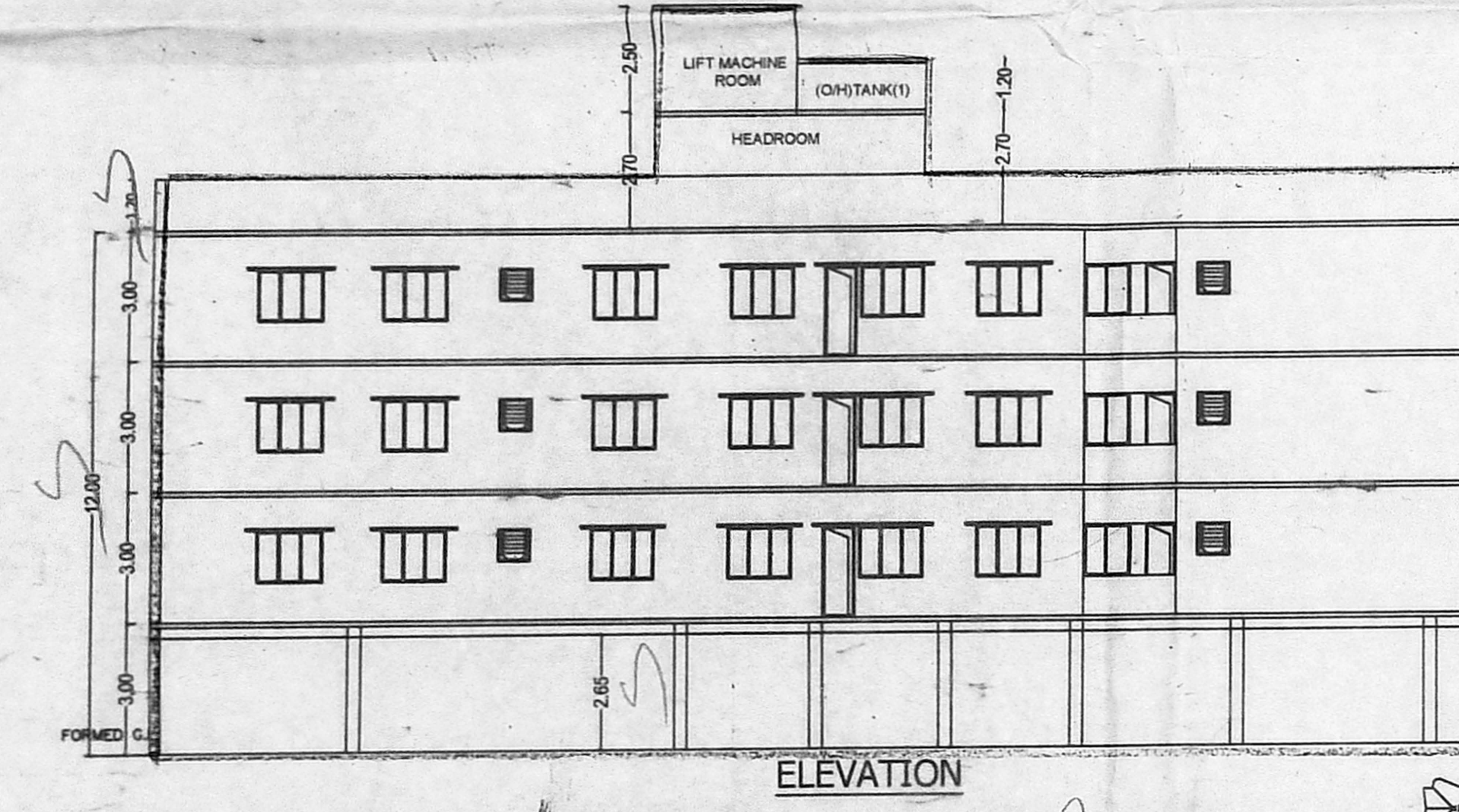
PLOT AREA(DOC)	605.26
PLOT AREA(PATTA)	605.00
STILT FLOOR (NON F.S.I)	26.51
FIRST FLOOR PLAN	388.07
SECOND FLOOR PLAN	388.07
THIRD FLOOR PLAN	388.07
TOTAL	1190.72

CAR PARKING PROVIDED : 10 NO'S

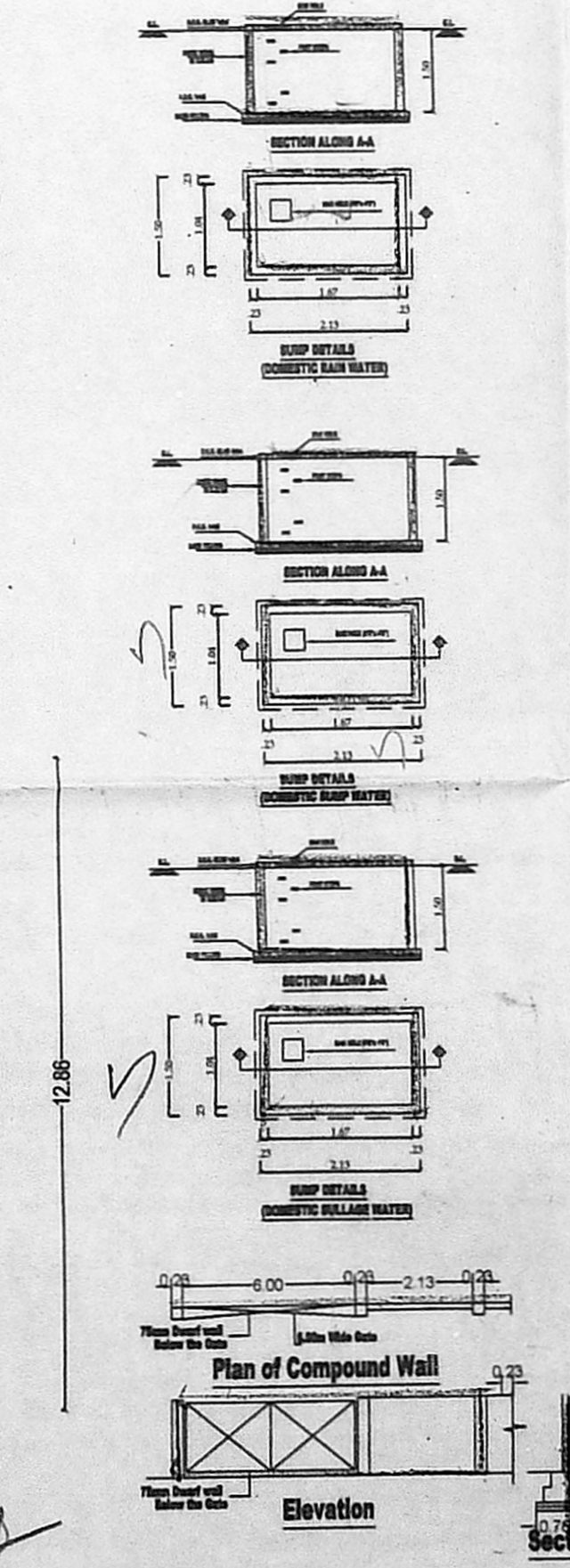
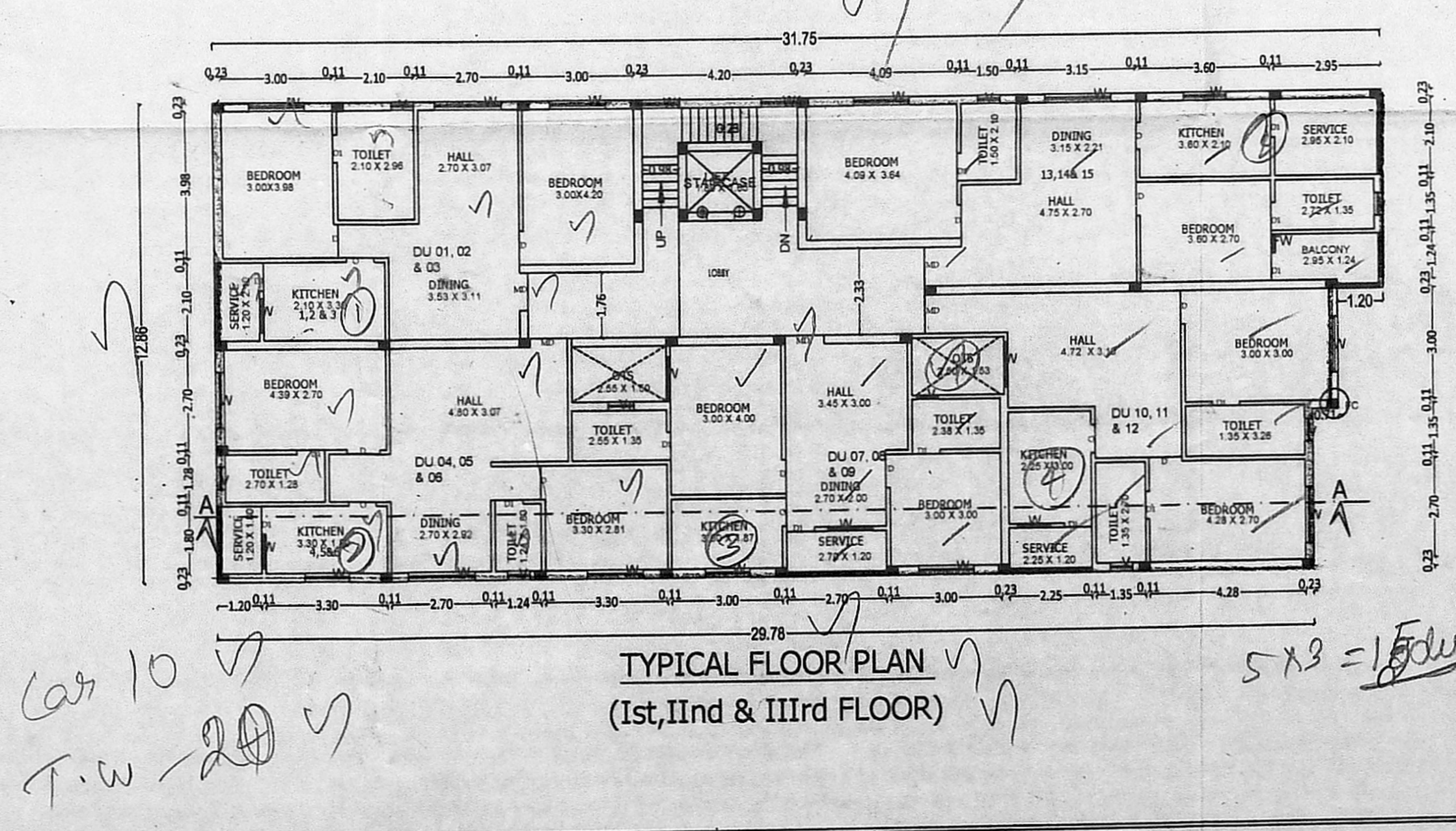
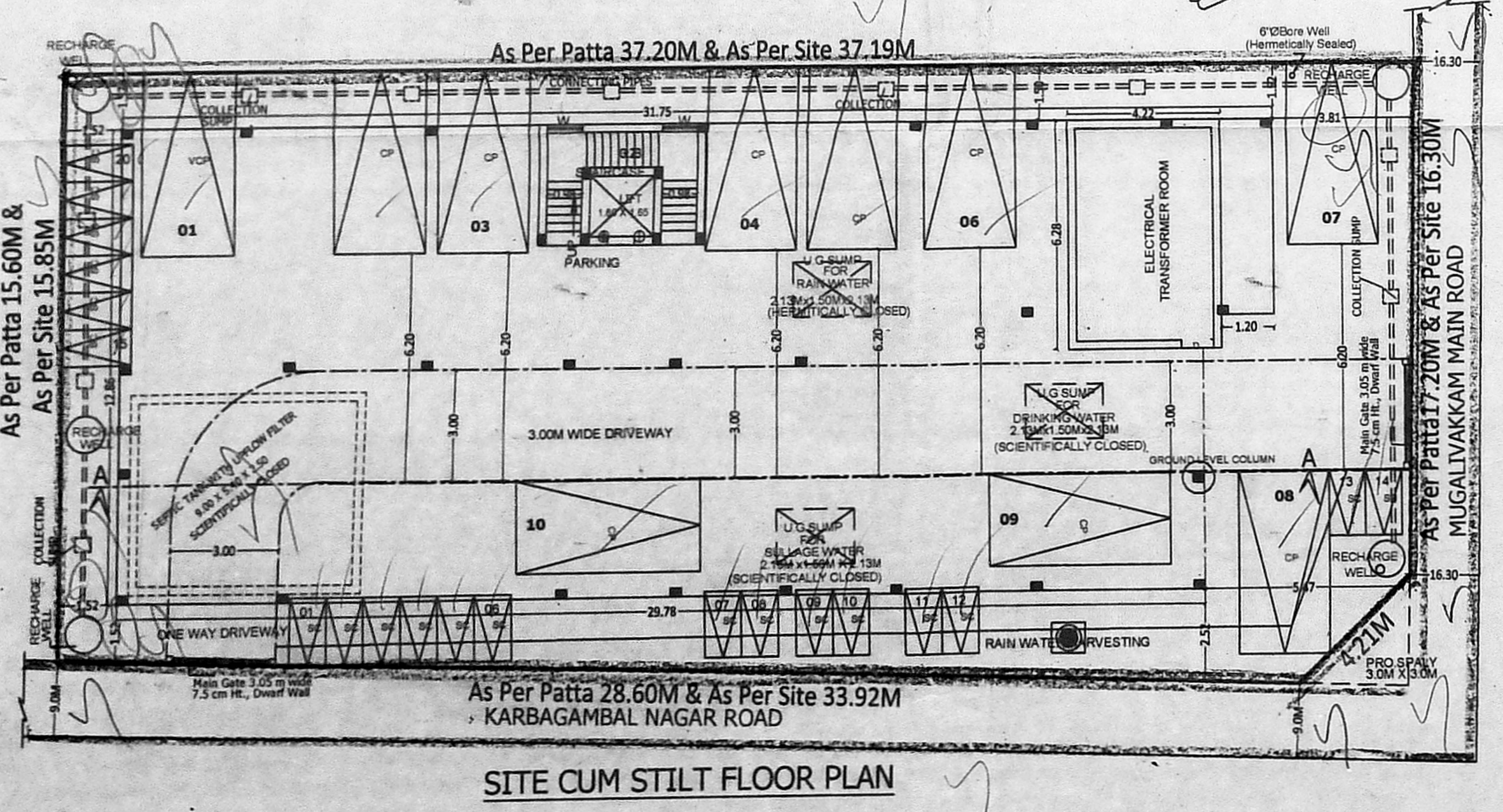
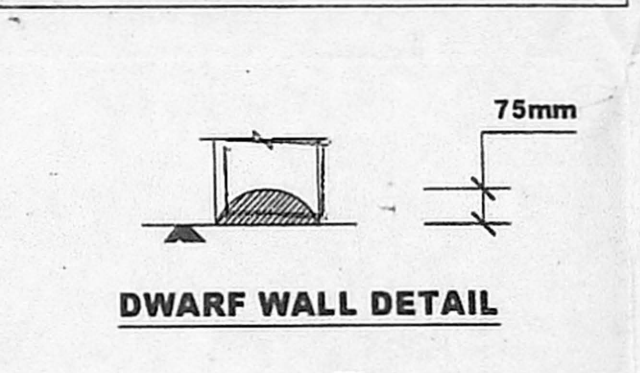
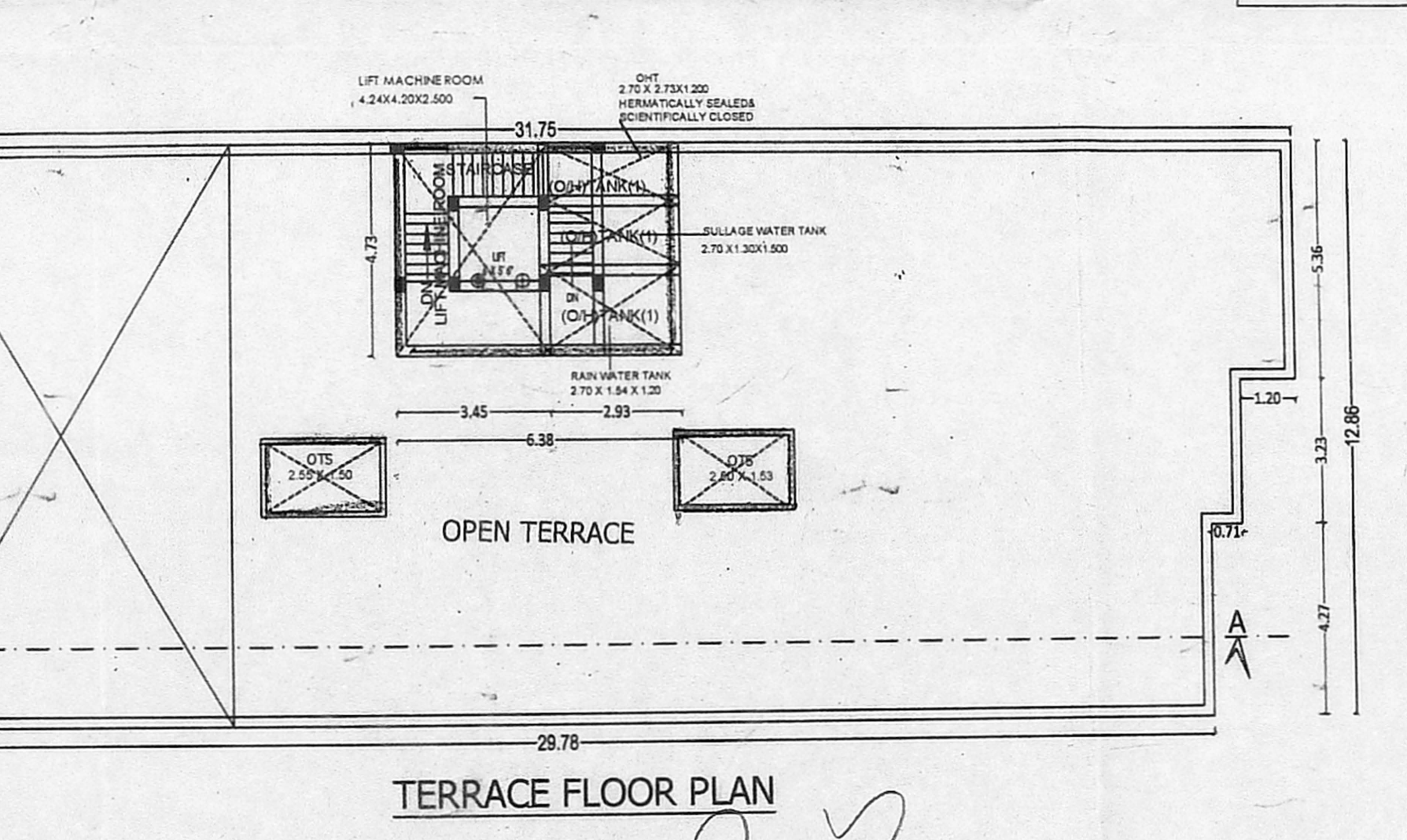
BIKE PARKING PROVIDED : 20 NO'S

F.S.I : 1190.72/ 605.00

F.S.I : 1.97



This Planning Permission as per the delegated powers given by Member Secretary, CMBA in Office Order No. 7/2019 dated 12.03.2019.



COLOUR INDEX

PROPOSED ROAD SITE BOUNDARY

SCALE 1" = 8' OR 1:100

SIGNATURE OF OWNER

R. Chandrasekaran

R.CHANDRASEKARAN, B.E.(CIVIL), F.I.V.
Structural Engineer, Approved Valuer No. F-24274,
Chennai Corporation Licensed Surveyor, Class No. 1934,
F.1, Louis Flats, 12, Kapapattinam Street,
CHENNAI - 600 008.

LICENSED SURVEYOR'S SIGNATURE