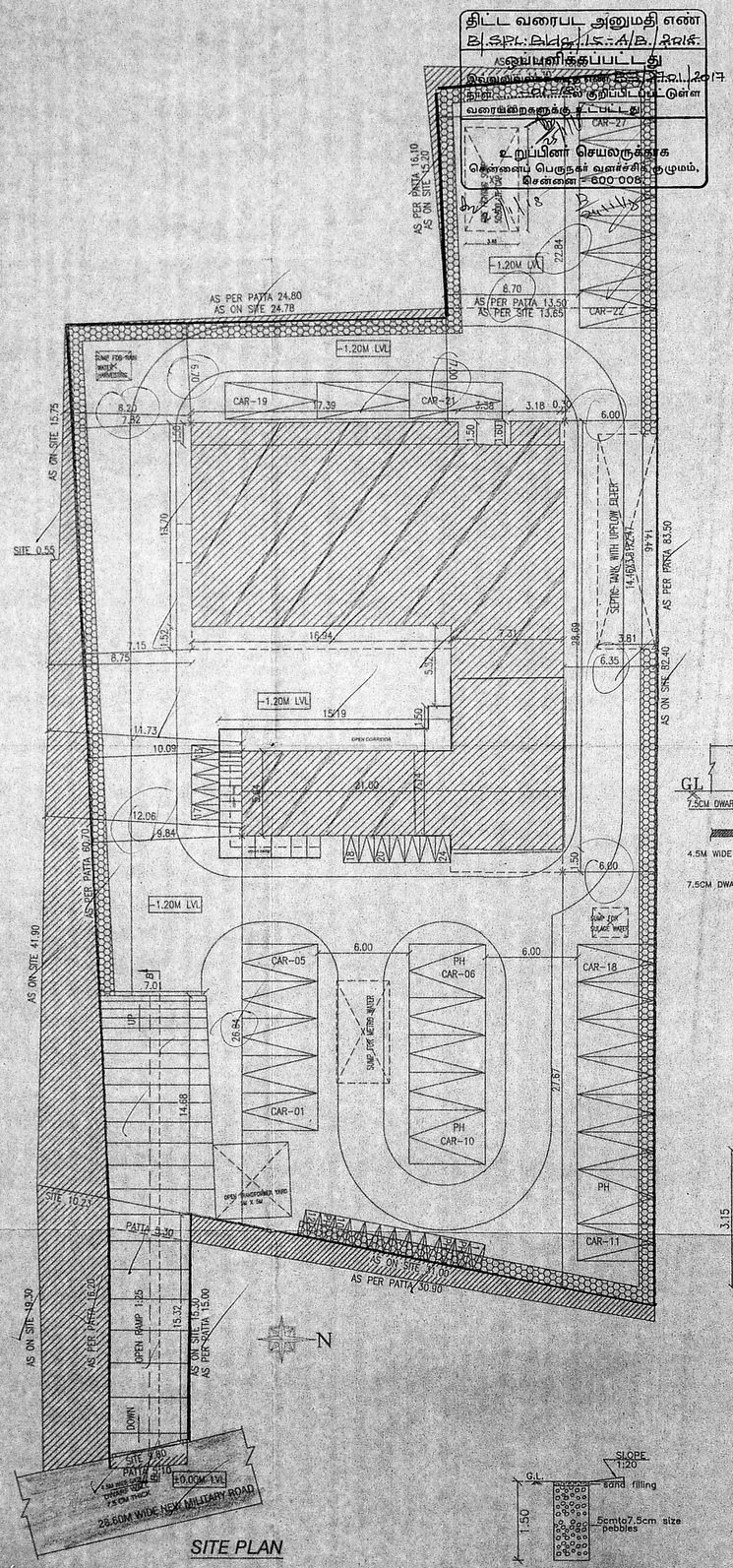
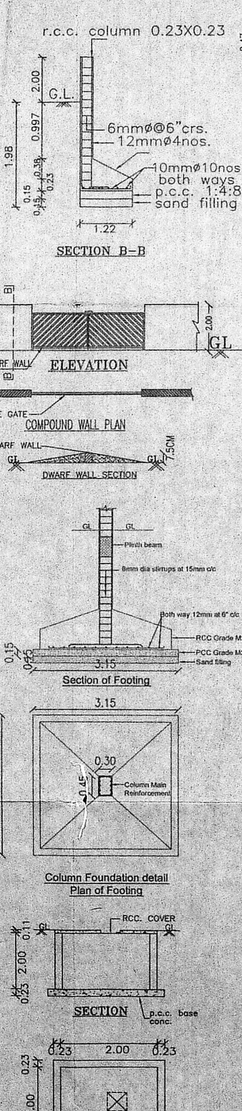
அலுவலகப் படி





DESIGN OF SEPTIC TANK WITH UPFLOW FILTER

COMMERCIAL AREA = 2227.91

EQUIVALENT DWELLING UNIT = 2227.91/50 = 44.55 NOS. SAY 45NOS.

NO OF USERS = 45 X 5 = 225 Nos.

FIXTURE UNIT PER DWELLING

TOTAL NO OF FIXTURE UNIT = 2 X 45 = 90 NoS.

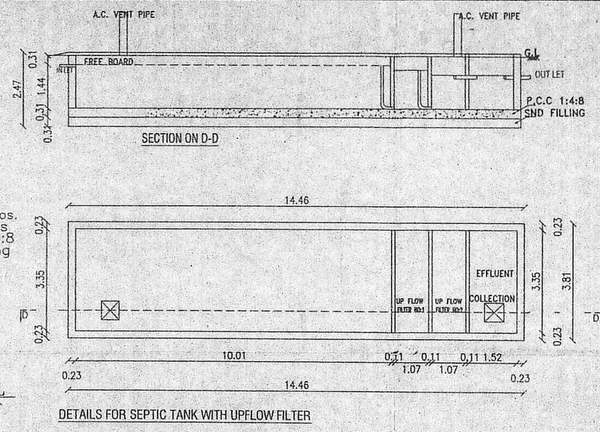
ASSUME A PEAK FACTOR OF 6LPM/FIXTURE UNIT = 2X225=450LPM

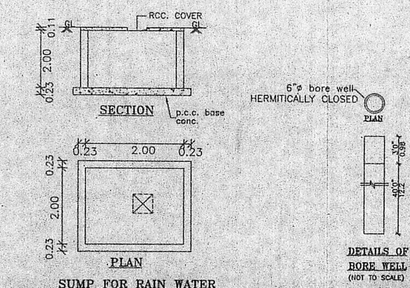
SEPTIC TANK

SURFACE AREA REQUIRED	= 450 X 0.92 / 10	=	41.40M^2
VOLUME OF FREE BOARD	= 41.40 X 0.30	=	12.42M^3
VOLUME OF SEDIMENTATION	= 41.40 X 0.30	=	12.42M^3
VOLUME OF DIGESTION	= 225X0.032	=	7.02M^3
VOLUME OF SLUDGE	= 225X365X0.0002	=	16.43M^3
	TOTAL VOLUME		48.29M^3
DEPTH OF SEPTIC TANK 48.29/39.56		=	1.22
PROVIDING L X B		=	2.5:1
SIZE OF SEPTIC TANK		=	10.01M X 3.35 X 1.44

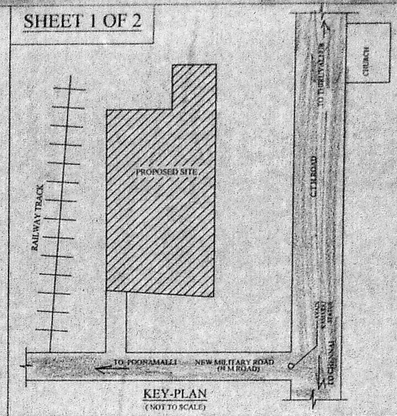
UPFLOW FILTER

CAPACITY PEAK GRAVITY	= 45 X 0.045	=	2.03M^3
ASSUME DEPTH	=	0.80M	
HENCE AREA OF FINAL EFFLUENT SUMP	= 2.03/0.80	=	2.53M^2
SIZE OF FINAL EFFLUENT SUMP	=	3.35X1.64X0.80M	
SIZE OF UPFLOW FILTER-1	=	3.35X1.07X1.30M	
SIZE OF UPFLOW FILTER-2	=	3.35X1.07X1.30M	





SHEET 1 OF 2



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.)	3069.49
PLOT EXTENT (PATTA)	2475.00
PLOT EXTENT (SITE)	2409.25

FLOOR	F.S.I AREA
GROUND FLOOR	589.78
FIRST FLOOR	579.96
SECOND FLOOR	579.94
THIRD FLOOR	478.23
TOTAL	2227.91

F.S.I = 0.925

COLOUR INDEX

EXISTING

PROPOSED

ROAD

BOUNDARY

SCALE : 1:200

PLAN SHOWING THE ADDITION / ALTERATION TO THE EXISTING HOTEL CUM LODGING HOUSE AT DOOR NO. 140, NEW MILITARY ROAD, AVADI, CHENNAI - 54 IN OLD S.NO.122 / 2B1 PART, 2BICI PART(AS PER DOC), T.S.NO.40,55 & 56 BLOCK NO.16, WARD-G OF VILINJIAMBAKKAM VILLAGE, AVADI TALUK, THIRUVALLUR DISTRICT, AVADI MUNICIPALITY

MEASUREMENTS ARE IN METRES

OWNER SIGNATURE

R. chandrasekaran

R. CHANDRASEKARAN, B.E.(CIVIL), F.I.V.
Structural Engineer, Approved Valuer No.F-24274,
Chennai Corporation Licenced Surveyor, Class I No. 1934,
F-1, Lokas Flats,12, Kipperaiyaji Street,
Pallavaram(opp.) Chennai-600114.
Mob:9442720105, emailsgvcchennai@gmail.com

LICENSED SURVEYOR

அலுவலகப் படி

1/2

1/2

பெருத்திய வரைபடம் நகல் தாயாக
நாள் 22-1-2017.

செ.பெ.வ.கு.(பி) ..... எண் .....
ந. எண் .....
உதவியாளர் 23/1/18
கூர்ந்தாய்வு
தி. உ. 22/1/18.
உ.தி.தி. 23/1/18

அலுவலகப் படி

திட்ட வரைபட அனுமதி எண்

உரும்பிராய் பிள்ளையார் கோயில் வீதி

இவ்விடத்தைக் கடந்து எவ்விதத் தடைகளும் இன்றி வாகனங்கள் செல்லலாம்.

உரும்பிராய் பிள்ளையார் கோயில் வீதி

உரும்பிராய் பிள்ளையார் கோயிலுக்காக
செல்லையர் பிள்ளைகள் வளவுக்குள் செல்லும்.
1.33 பெர்சஸ் - 600 POS A-02

SHEET 2 OF 2

THIRD FLOOR PLAN (PART)

TERRACE FLOOR PLAN

ELEVATION

SECTION A-A

GROUND FLOOR PLAN

FIRST FLOOR PLAN

SECOND FLOOR PLAN

COLOUR INDEX

EXISTING

PROPOSED

ROAD

BOUNDARY

SHEDULE OF JOINERY

DD	DOOR	1.50X2.13
D	DOOR	1.00X2.13
FD	DOOR/WINDOW	1.20X2.13
D1	DOOR	0.90X2.13
D2	DOOR	0.76X2.13
W	WINDOW	1.00X1.22
W1	WINDOW	1.20X1.22
V	VENTILATOR	0.90 X .060

SCALE : 1:100

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MEASUREMENTS ARE IN METRES

OWNER SIGNATURE

R.CHANDRASEKARAN.B.E/CIVIL/F.I.V.
Structural Engineer Approval Volume No.F.3/474.
Chennai Corporation Licensed Surveyor, Class I No.1034.
F1, Lions Flats 52 Kapaleeshwar Nagar,
Pattanambakkam, Chennai-600014.
Ph:9444092814,email:grsekaran@gmail.com

LICENSED SURVEYOR