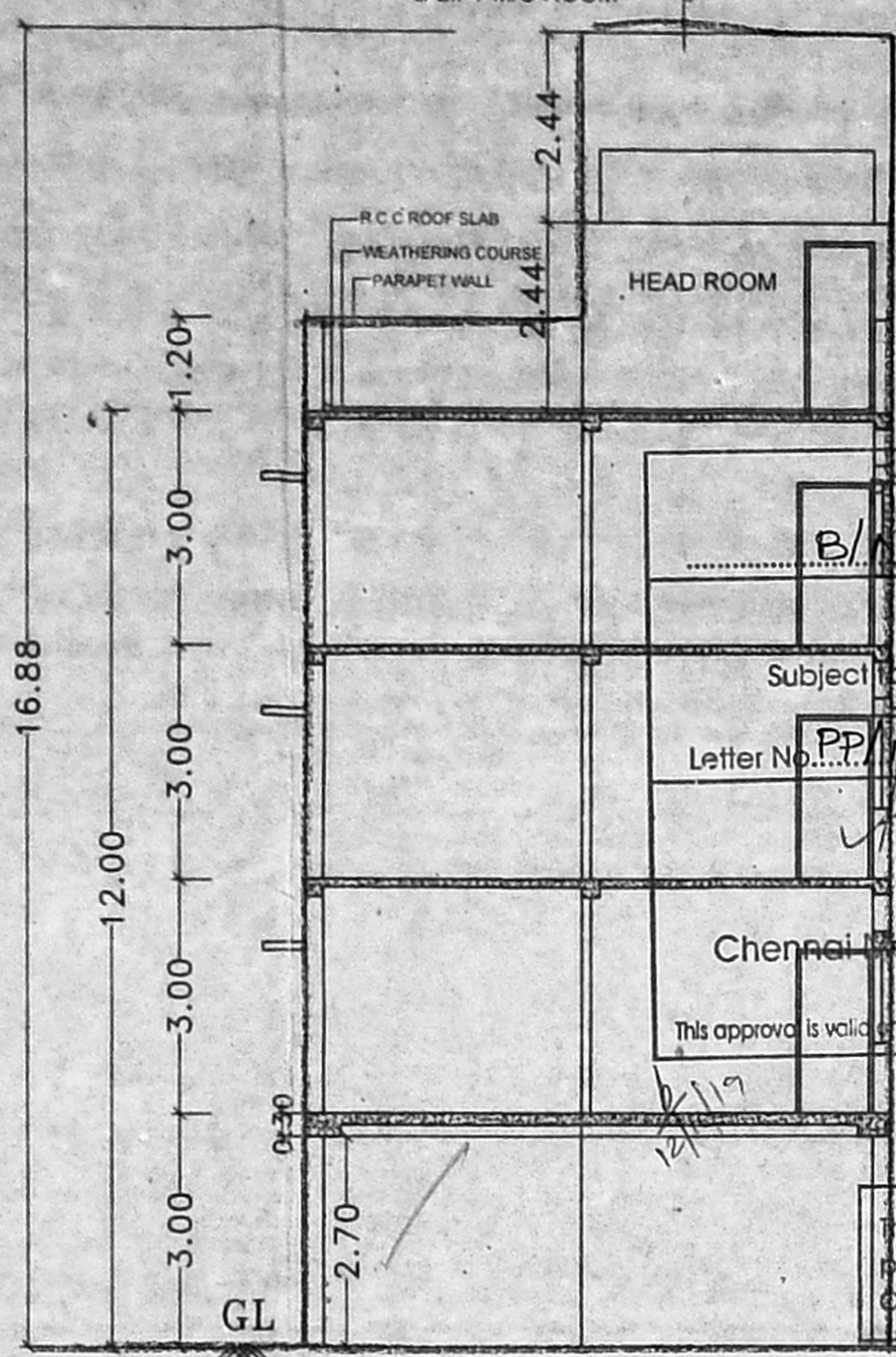
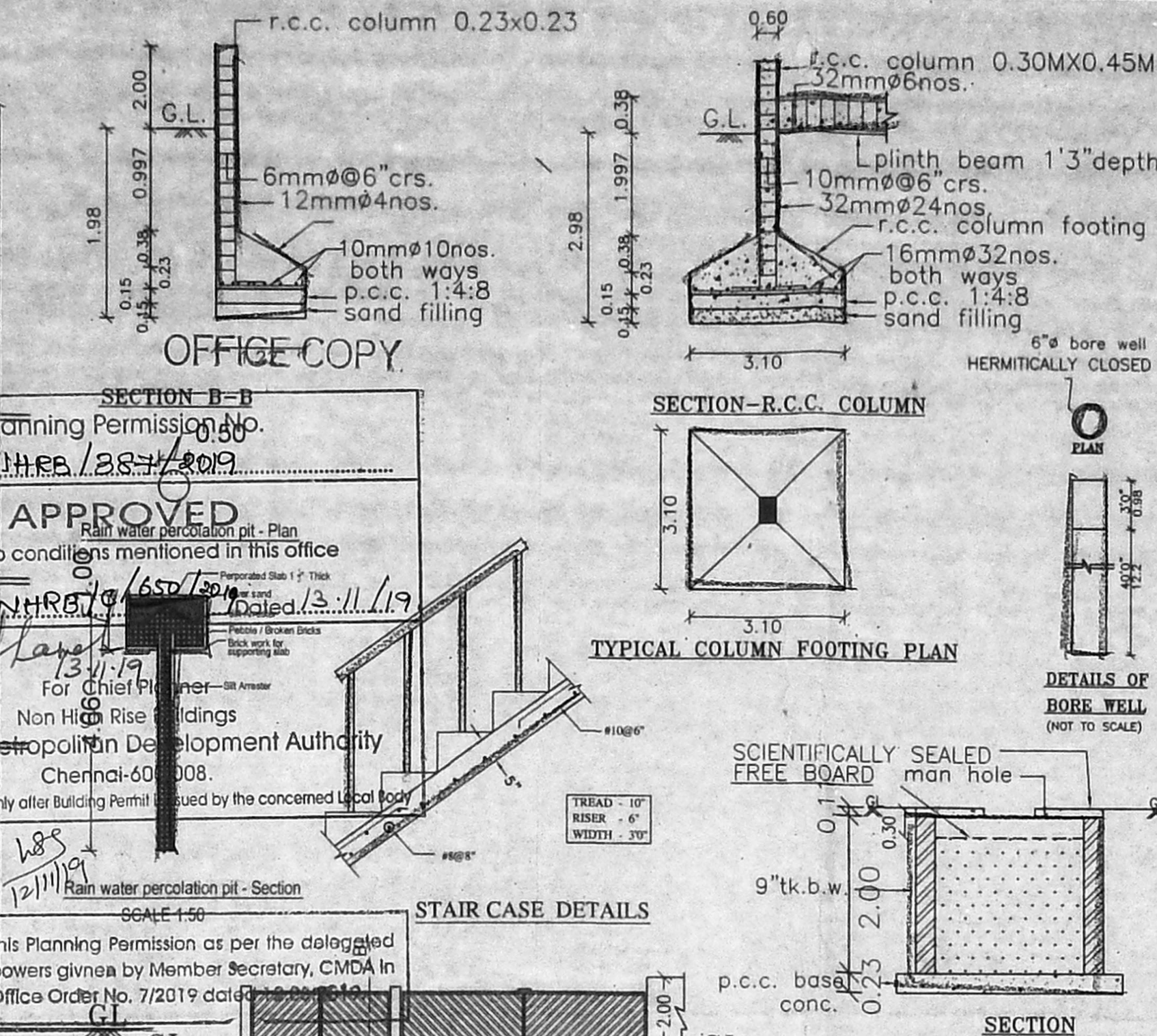


ELEVATION



SECTION ON A - A



OFFICE COPY

Planning Permission No. P/119/2019/2019
 APPROVED
 Rain water percolation pit - Plan
 Subject to conditions mentioned in this office
 Letter No. PP/119/2019/2019 Dated 12.11.19
 For Chief Planner
 Non High Rise Buildings
 Chennai Metropolitan Development Authority
 Chennai-600008.
 This approval is valid only after Building Permit issued by the concerned Local Body.

This Planning Permission as per the delegated powers given by Member Secretary, CMDA in Office Order No. 7/2019 dated 12/11/19.

7.5CM DWARF WALL / Riser - 6" / WIDTH - 30"

7.00 M WIDE GATE

7.5CM DWARF WALL

7.5CM DWARF WALL

7.5CM DWARF WALL

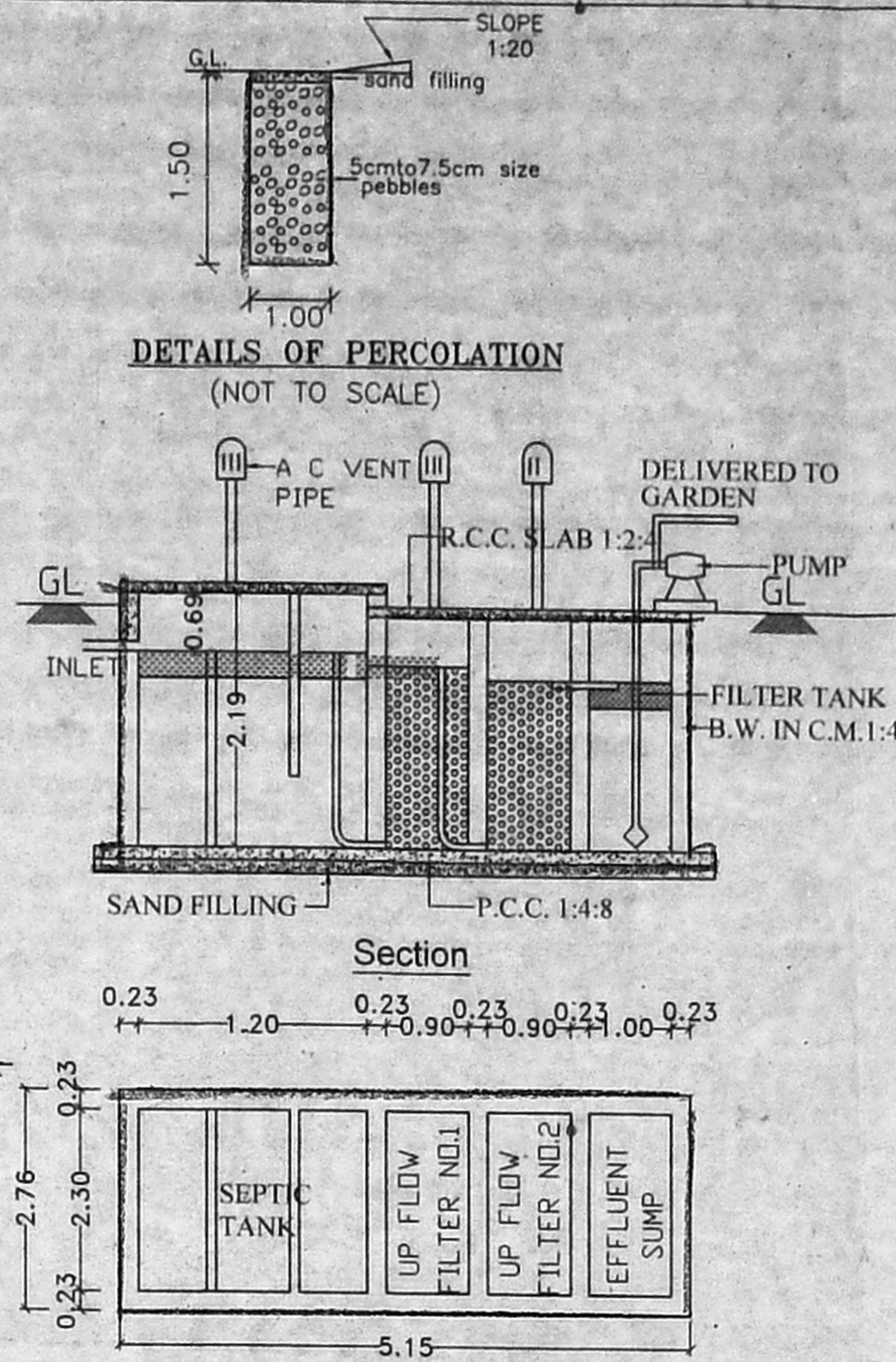
7.5CM DWARF WALL

7.5CM DWARF WALL

7.5CM DWARF WALL

7.5CM DWARF WALL

7.5CM DWARF WALL



DETAILS OF PERCOLATION (NOT TO SCALE)

Section

Plan

Details of upflow filter septic tank

DESIGN OF SEPTIC TANK WITH TWO UP-FLOW FILTERS

RESIDENTIAL = 6 UNITS

NO. OF USERS (5 PERSON PER UNIT) = (6x5) = 30 PERSONS
 RATE OF WATER SUPPLY = 150 LITRES/HEAD/DAY
 FLOW OF SEWAGE PER DAY = 30 x 150 = 4500 LITRES

ASSUMING THE DETENTION PERIOD : 18 HOURS
 TANK CAPACITY (4500x18) = 3375 LITRES

THE TANK WILL BE CLEANED EVERY YEAR, SO SLUDGE STORAGE CAPACITY AT THE RATE OF 50 LITRES FOR PER YEAR = 30 x 50 = 1500 LITRES
 TOTAL : 3375+1500 = 4875 LITRES

WITH PROVISION FOR FUTURE EXPANSION ADD 25% EXTRA
 LET THE TANK CAPACITY BE : 6 M³
 DEPTH OF FLOW AS : 2.00 M (AVERAGE)
 PLAN AREA OF THE TANK : 6 M³ = 3M² 2M

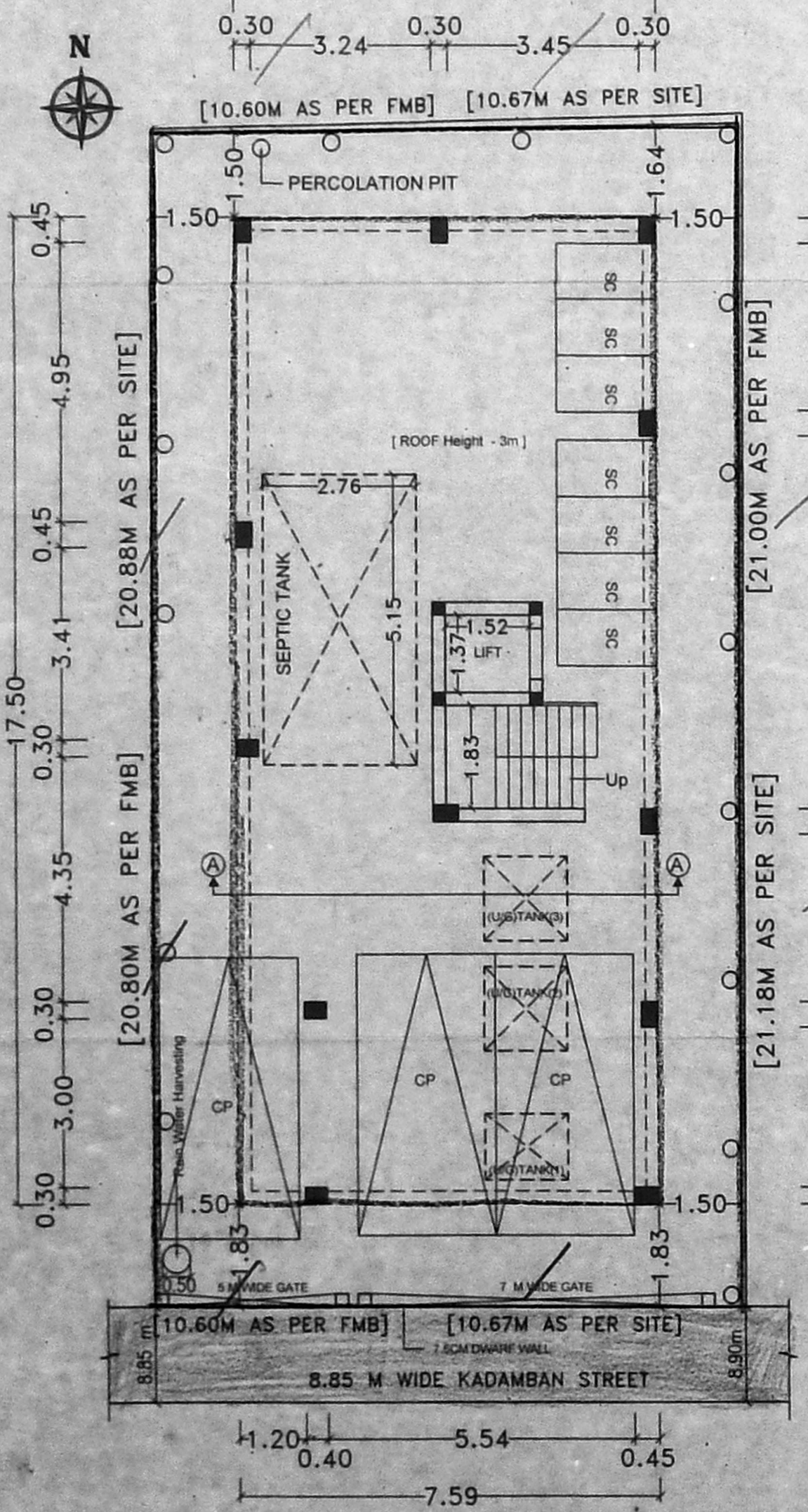
THE RATE OF L/B : 3:1
 BREATH B = $\sqrt{4/3}$: 1.15M
 L = 3 X 1.15 : 3.45M
 FREE BOARD OF THE TANK : 0.69M
 TOTAL DEPTH OF THE TANK : 1.6M + 0.69M = 2.19M
 REQUIRED SIZE OF SEPTIC TANK : 1.15 M X 2.30M X 2.19M = 6.0 M³

WE PROVIDE THE SEPTIC TANK OF SIZE IS = 1.20M X 2.40M X 2.29M = 6.59 M³
 HENCE THE SEPTIC TANK IS SUFFICIENT

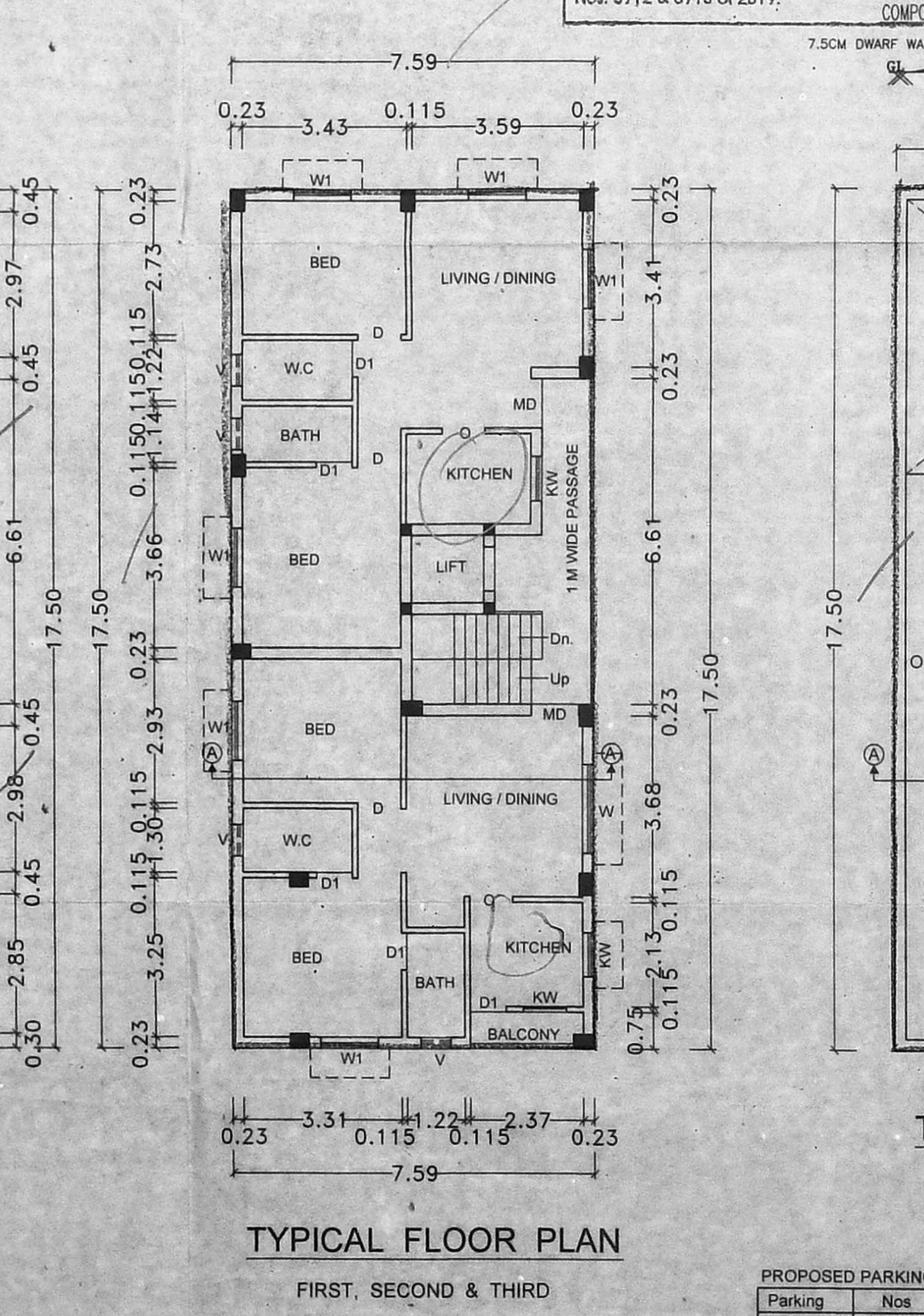
UP FLOW DETAILS:
 DISCHARGE FOR 65 PERSONS : 4875 LITRES
 EXTRA FLOW TAKEN FOR FUTURE EXTENSION (ADD 50%) : 3000 LITRES
 TOTAL DISCHARGE : 7875 LITRES
 ASSUME THE PERCOLATING CAPACITY OF FILTER MEDIA OF THE UP FLOW FILTER PIT AS 1.25 M³ (1250 LITRES/M²/DAY)
 VOLUME OF UP FLOW FILTER PIT : 8 M³ = 6.4 M³
 REQUIRED : 1.25 M³
 DEPTH OF UP FLOW FILTER PIT : 2.00M
 PLAN AREA REQUIRED : 6.4 M³ / 2.0 M = 3.2 M²

LENGTH AND BREATH : $\sqrt{3.2} = 1.80M$
 REQUIRED SIZE OF UP FLOW FILTER PIT : 1.80M X 1.80M X 2.0M = 6.48 M³
 = 3.21 M³

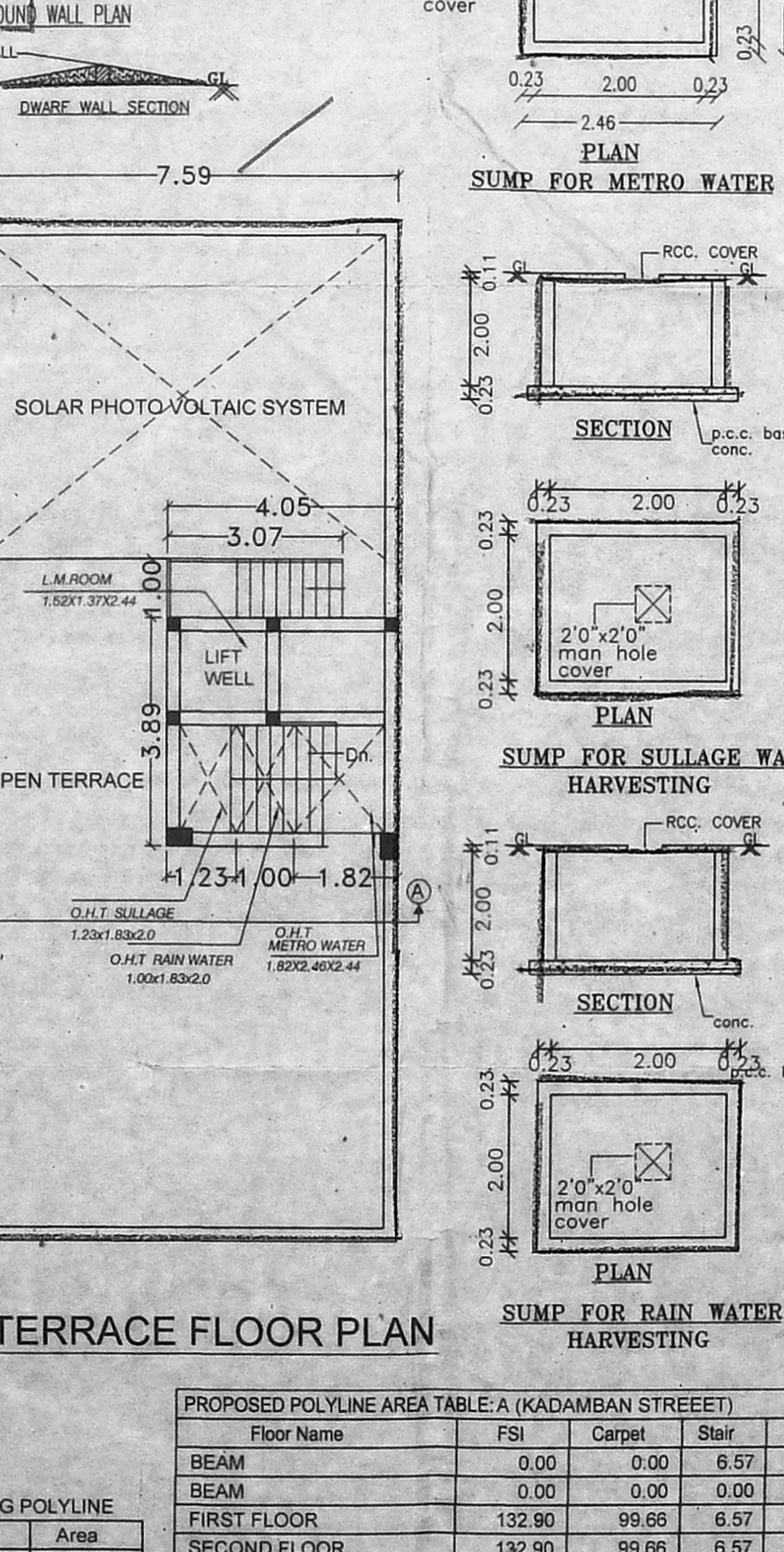
REQUIRED SIZE OF EFFLUENT COLLECTION TANK : 2 Nos. X 1.80M X 1.80M X 2.0M = 12.96 M³
 WE PROVIDE THE 2 NOS. OF UP FLOW : 2 Nos. X 1.80M X 1.80M X 2.0M = 12.96 M³
 FILTER PIT OF SIZE : 1.00M X 2.00M X 2.00M = 4.00 M³
 WE PROVIDE THE EFFLUENT COLLECTION TANK : 1.00M X 2.00M X 2.00M = 4.00 M³
 HENCE THE SEPTIC TANK SIZE (2.40M X 1.20M X 2.29M) UP FLOW FILTER PIT SIZE (2 NOS. X 1.80M X 1.80M X 2.0M) AND EFFLUENT COLLECTION TANK SIZE (1.00M X 2.00M X 2.00M) ARE SUFFICIENT FOR THE FLATS.



SITE CUM STILT FLOOR PLAN



TYPICAL FLOOR PLAN FIRST, SECOND & THIRD



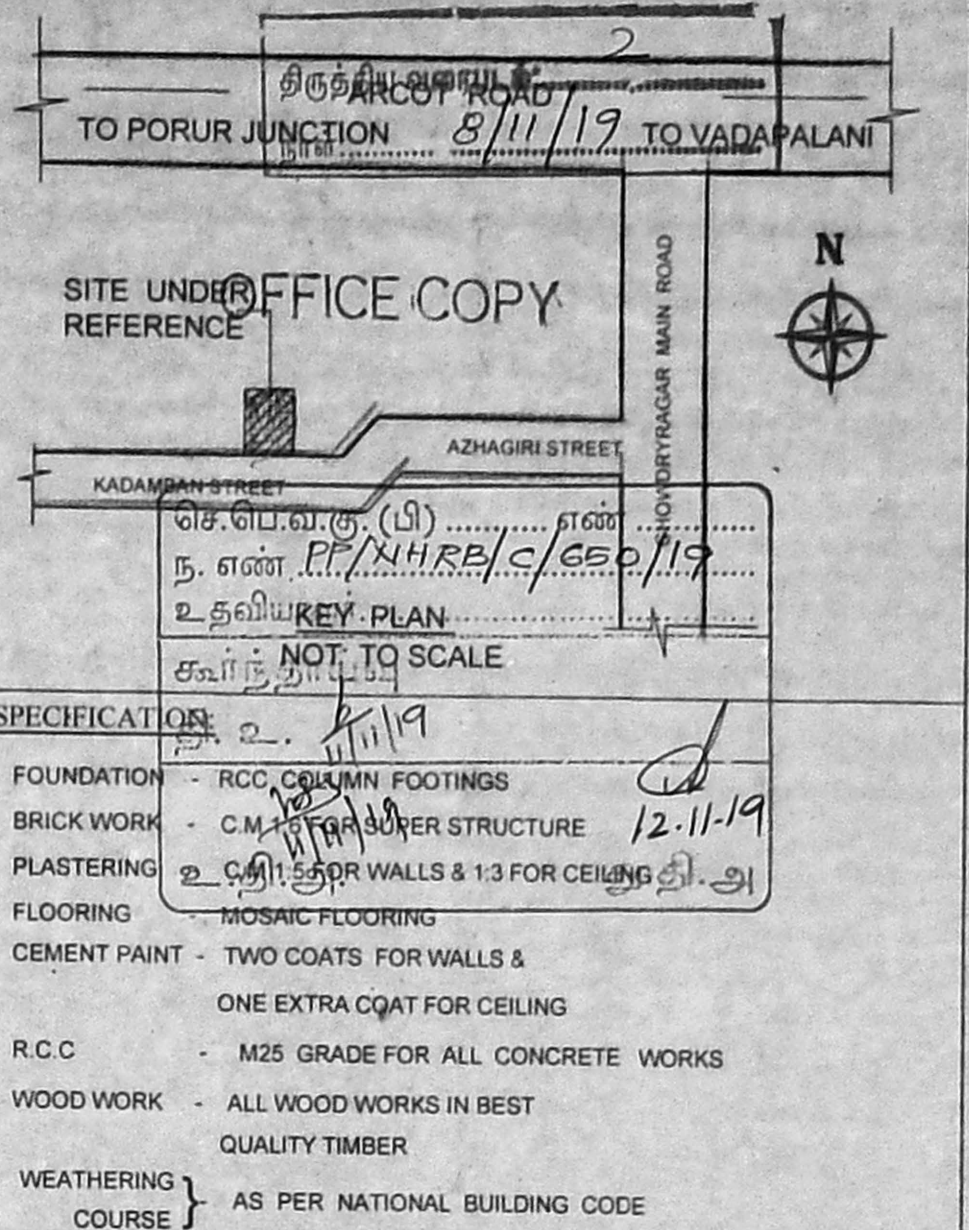
TERRACE FLOOR PLAN

PROPOSED PARKING POLYLINE

Parking	Nos	Area
CP-L	3	37.50
SC	7	12.60
PARKING	1	135.39

PROPOSED POLYLINE AREA TABLE (KADAMBAN STREET)

Floor Name	FSI	Carpet	Stair	Lift	Passage	Tenement	Terrace	Balcony	SubStructure	Temp	Chowk	V. Shaft
BEAM	0.00	0.00	6.57	2.08	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
BEAM	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
FIRST FLOOR	132.90	99.66	6.57	2.08	6.77	2	0.00	1.78	0.00	0.00	0.00	0.00
SECOND FLOOR	132.90	99.66	6.57	2.08	6.77	2	0.00	1.78	0.00	0.00	0.00	0.00
THIRD FLOOR	132.90	99.66	6.57	2.08	6.77	2	0.00	1.78	0.00	0.00	0.00	0.00
TERRACE FLOOR	0.00	0.00	8.34	7.41	0.00	0	132.90	0.00	39.87	0.00	0.00	0.00
Total	398.70	298.98	34.62	15.73	20.31	6	132.90	5.34	39.87	0.00	0.00	0.00



AREA STATEMENT

Plot Extent (Doc.)	224.36
Plot Extent (Patta)	200.00
Plot Extent (Site)	224.36

FLOOR

FLOOR	NET F.S.I AREA	DWELLING UNITS
FIRST FLOOR	132.90	2 UNITS
SECOND FLOOR	132.90	2 UNITS
THIRD FLOOR	132.90	2 UNITS
TOTAL	398.70	6 UNITS

F.S.I = 1.993 CAR PARKING PROVIDED - 3 Nos.

COLOUR INDEX

PROPOSED	SCHEDULE OF JOINERY
D DOOR	1.00X2.13
D1 DOOR	0.90X2.13
D2 DOOR	0.76X2.13
W WINDOW	1.80X1.22
W1 WINDOW	1.20X1.22
KW KITCHEN WINDOW	0.90X0.90
V VENTILATOR	0.90 X 0.60

SCALE : 1:100

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 3 FLOORS, RESIDENTIAL BUILDING WITH 6 DWELLING UNITS AT PLOT No. 59, KADAMBAN STREET, MADURAI SREE MEENATCHI NAGAR, VALASARAVAKKAM. COMPRISED IN S. No. 174/2, (AS PER Doc.) part, S. No. 174/2A1A1A1E (AS PER PATT), VALASARAVAKKAM VILLAGE, GREATER CHENNAI CORPORATION, DIVISION No. 143, ZONE No. - XI.

MEASUREMENTS ARE IN METRES

OWNER SIGNATURE

OWNER: E. V. HARI KRISHNAN, M.Tech (struc.)
 Registered Engineer Grade - II (RE)
 CMDA No: RE/GR-II/19/03/027
 Licensed Surveyor - Class-I No: 2147
 No.48, KPS Nagar, Kannapalayam,
 Poonamallee, Ch - 71. Cell : 988444224
 Email : hari.streng@gmail.com

LICENSED SURVEYOR