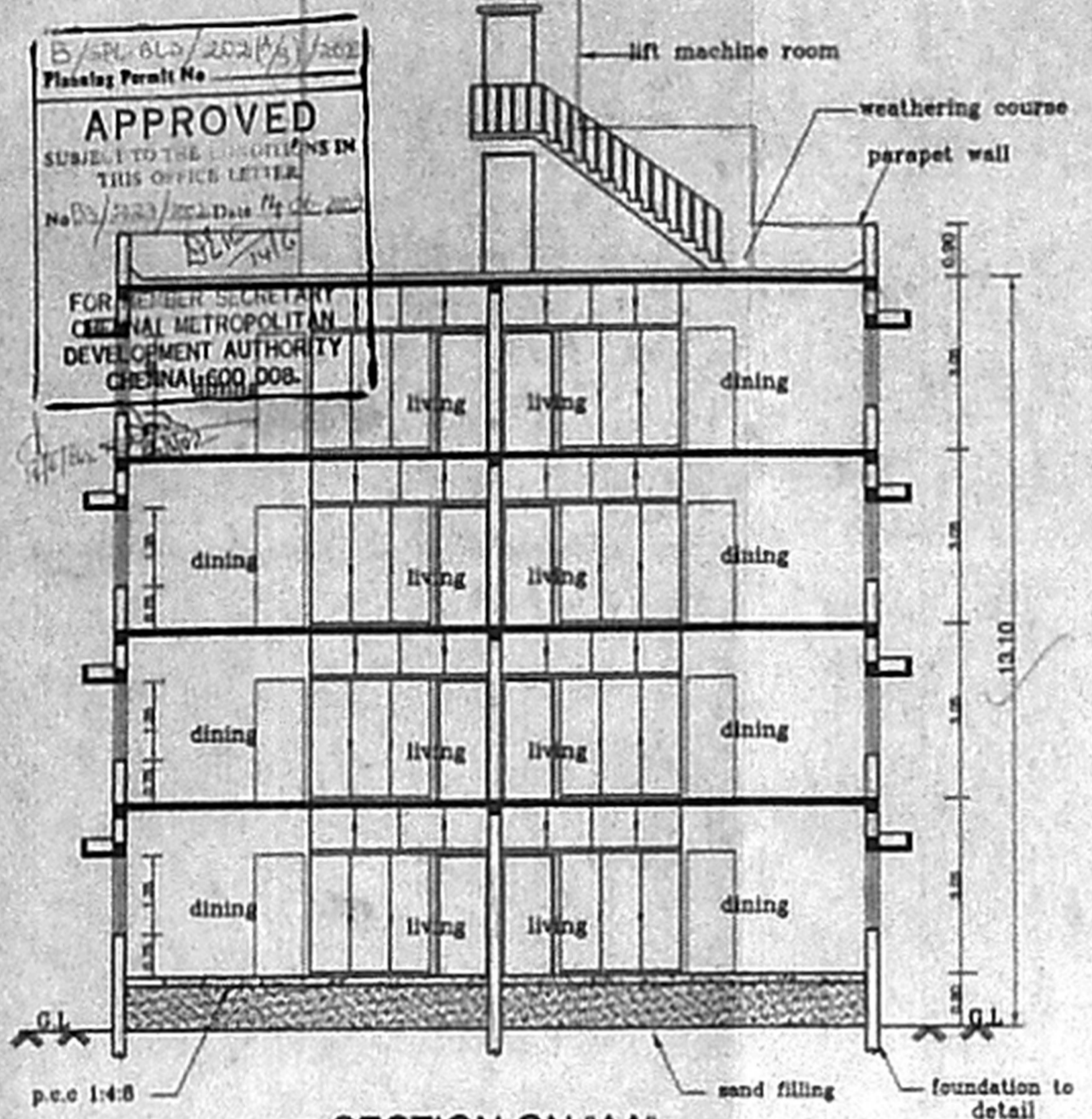
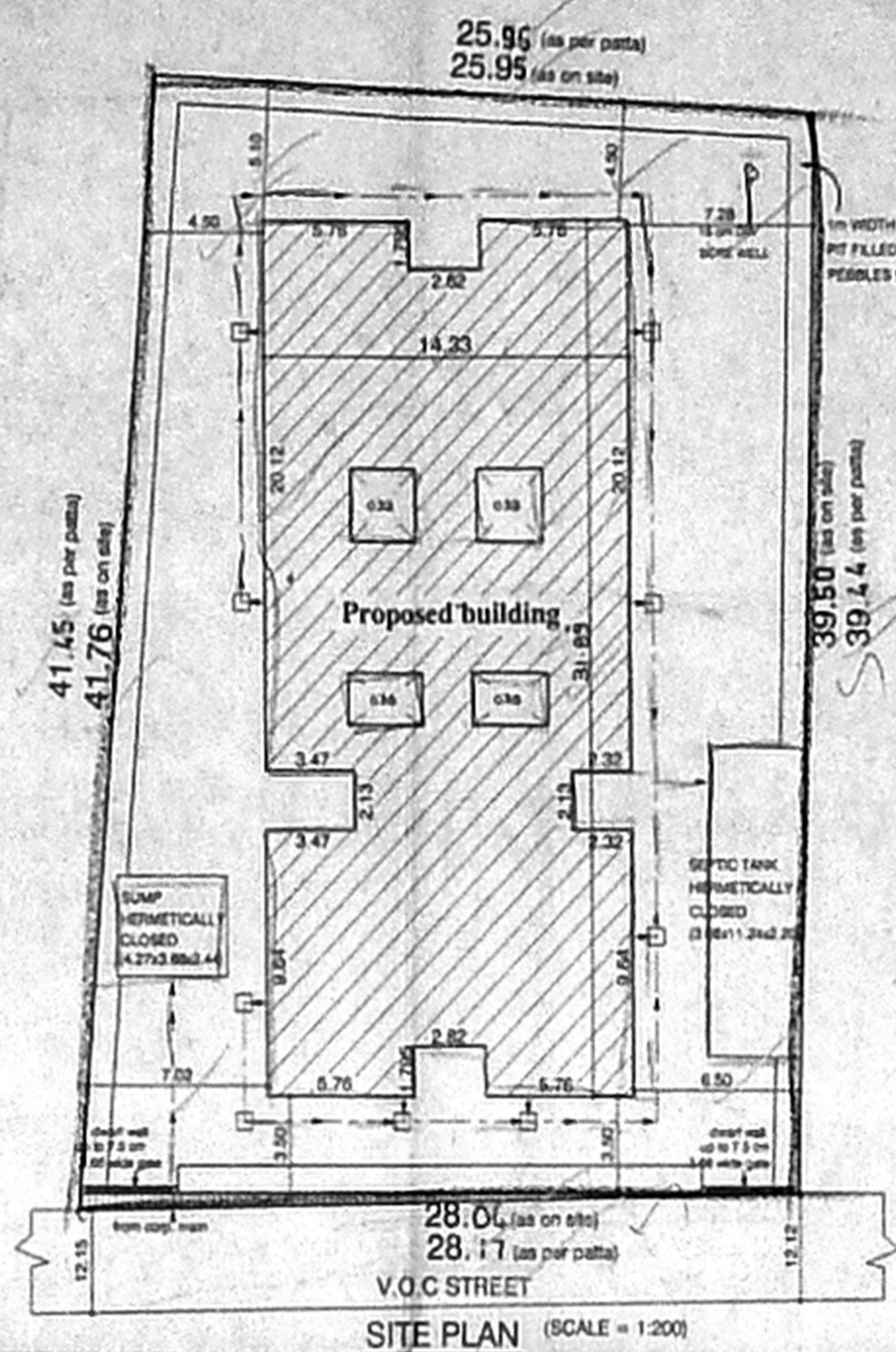


FRONT ELEVATION

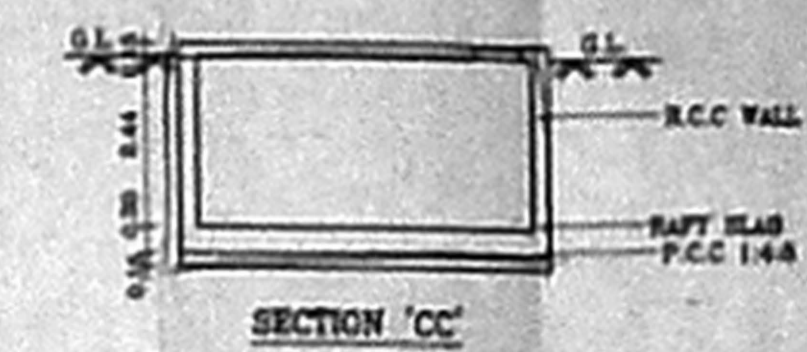
OFFICE COPY



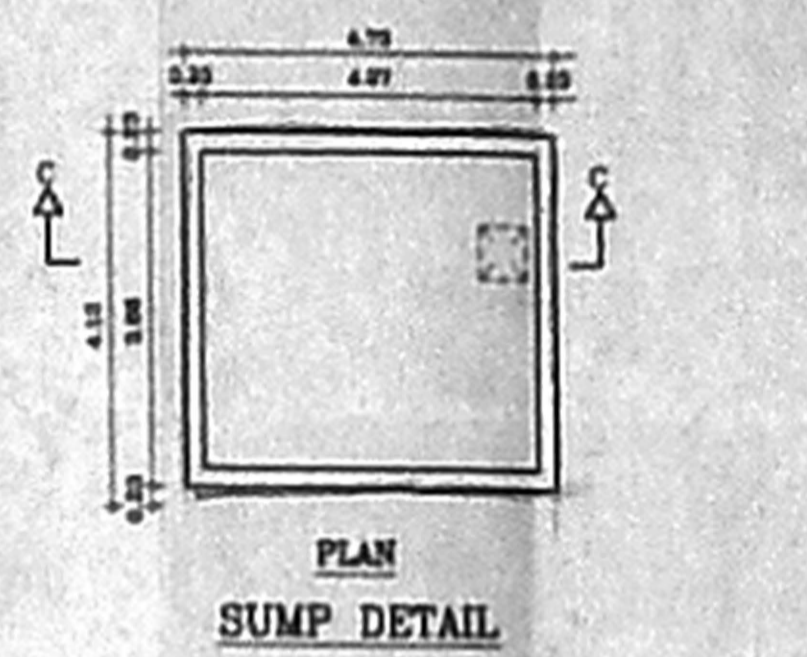
SECTION ON "AA"



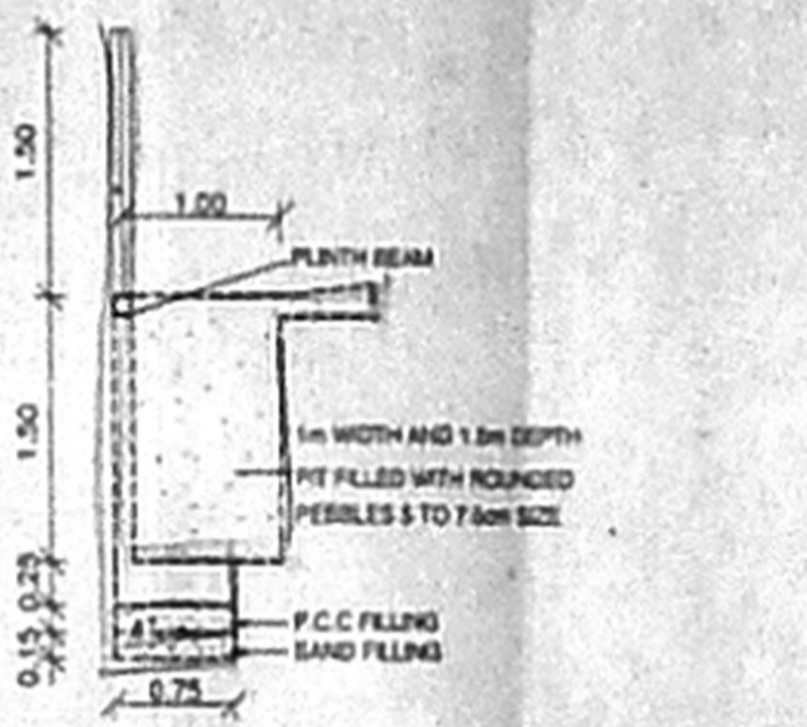
SITE PLAN (SCALE = 1:200)



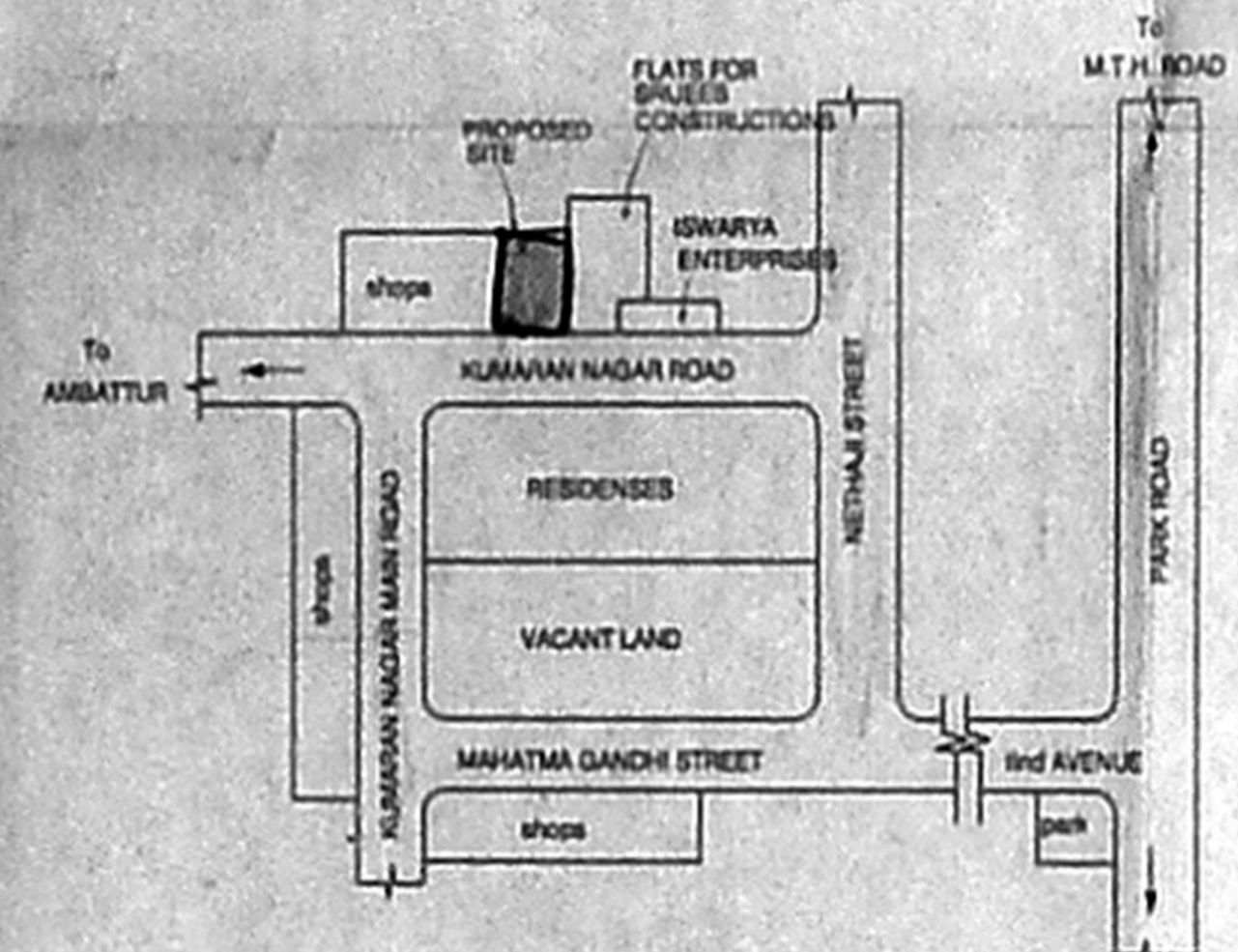
SECTION "CC"



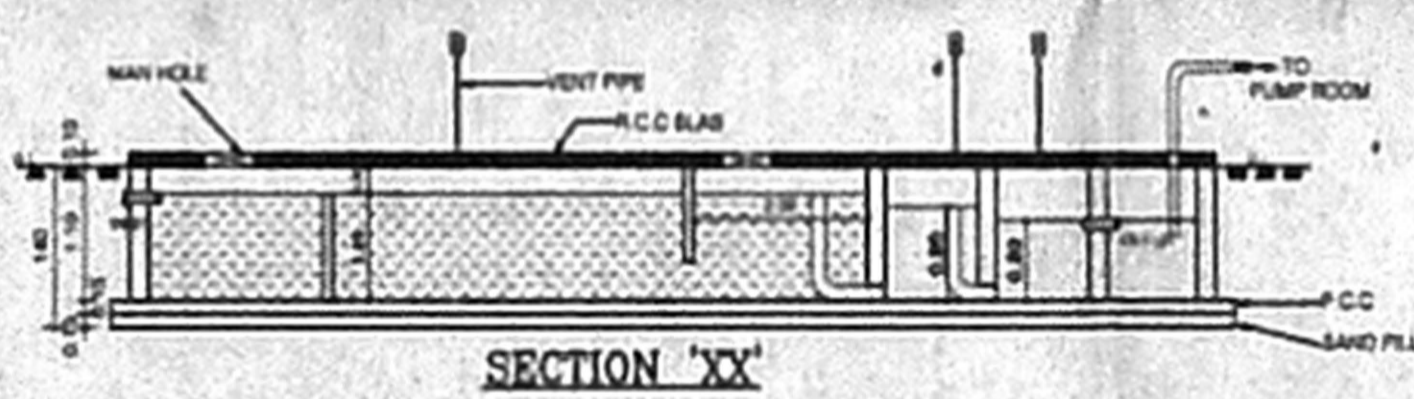
PLAN SUMP DETAIL



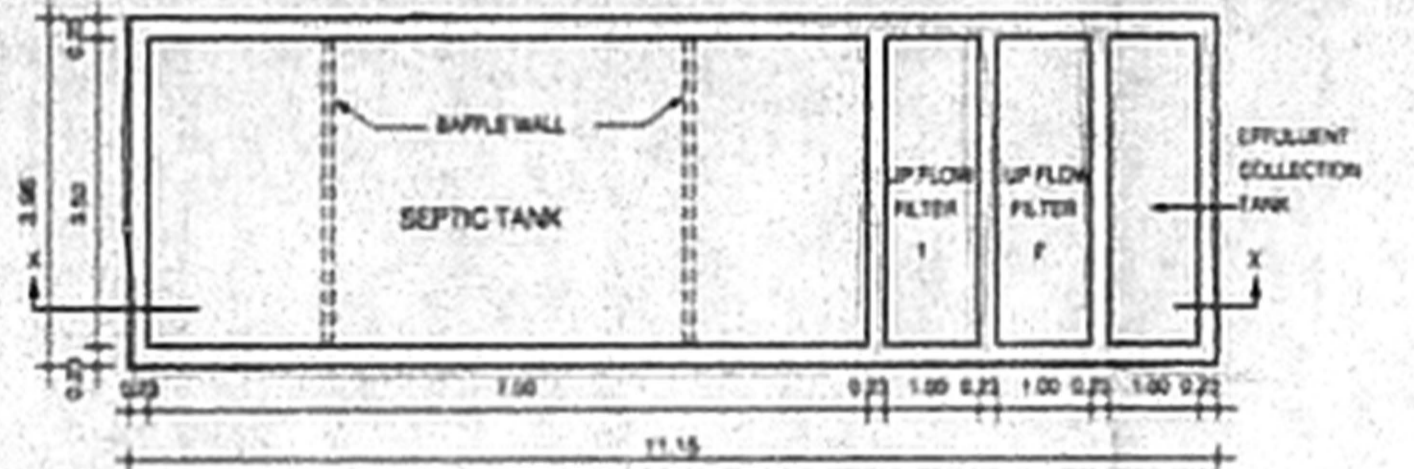
COMPOUND WALL DETAIL (SCALE 1:40)



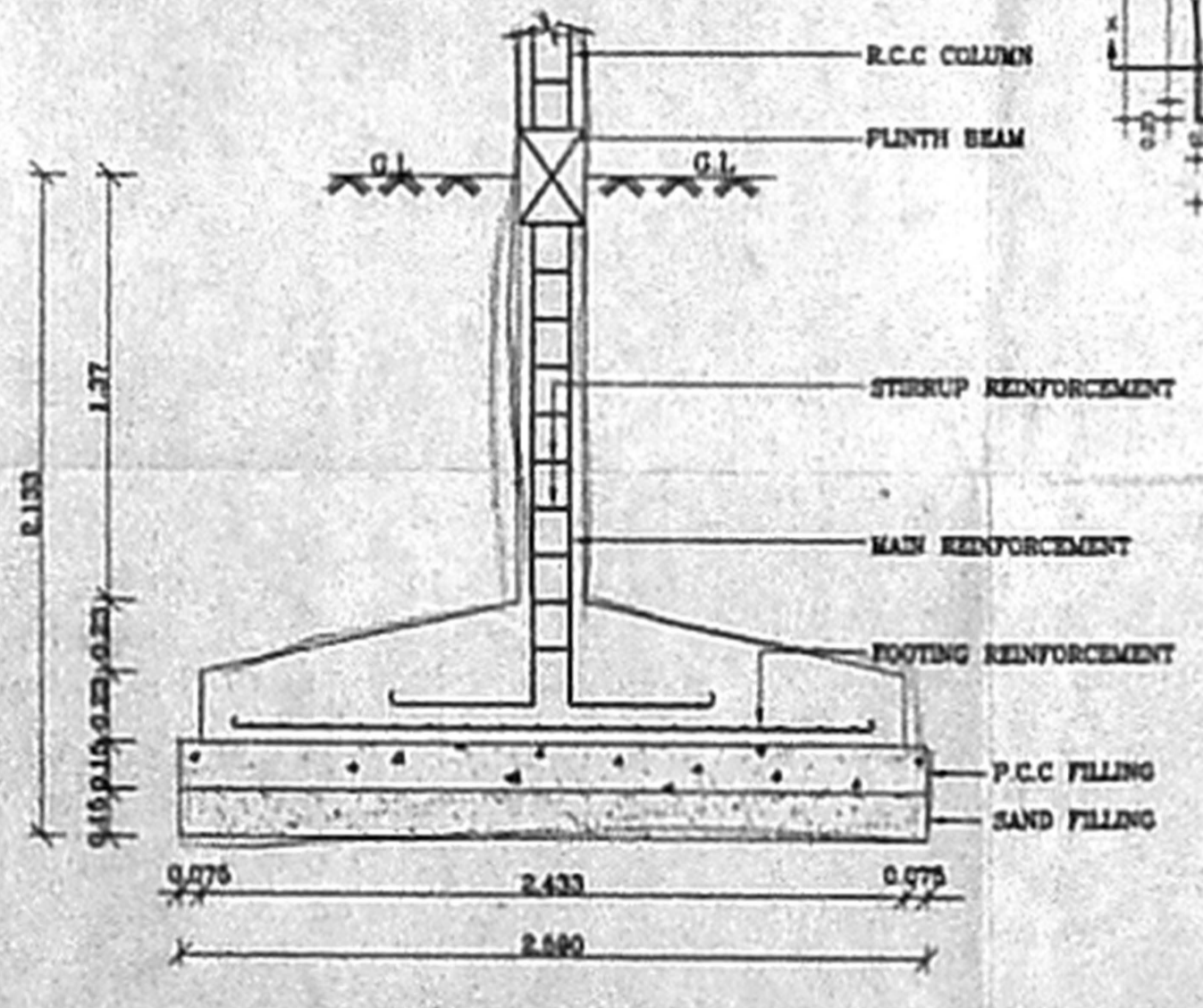
Key Plan (NOT TO SCALE)



SECTION "XX"



PLAN OF SEPTIC TANK



FOUNDATION DETAIL (SCALE 1:20)

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER FOR 24 DWELLINGS

NO OF FLATS OR DWELLINGS - 24  
 ASSUMING 5 PERSONS PER FLATS - 24x5=120  
 NO.OF PERSONS  
 NO.OF USERS - 120  
 ASSUMING 2 FIXTURES PER FLAT - 24x2 = 48 UNITS  
 PER HOUR DISCHARGE - 48x6 = 288 LPM

SEPTIC TANK  
 SURFACE AREA NEEDED -  $\frac{288 \times 0.92}{10} = 26.496$  SAY 27M<sup>2</sup>  
 VOLUME OF SEDIMENTATION } - 27x0.3m = 8.1M<sup>3</sup>  
 ASSUMING 0.3m DEPTH }  
 FOR DIGESTION - 120x0.032 = 3.84M<sup>3</sup>  
 FOR SLUDGE STORAGE - 0.0002x365x120 = 8.76M<sup>3</sup>  
 FREE BOARD FOR SLUDGE - 27x0.3 = 8.1M<sup>3</sup>  
 28.80M<sup>3</sup> SAY 29M<sup>3</sup>

DEPTH =  $\frac{VOLUME}{STORAGE} = \frac{29}{27} = 1.1m$   
 SIZE OF SEPTIC TANK : 7.0x3.5x1.1m

UPFLOW FILTER  
 LIQUID DEPTH OF SEPTIC TANK = 1.1m  
 VOLUME : 120x0.045 = 5.4M<sup>3</sup>  
 UPFLOW FILTER DEPTH } = 1.1-0.3 = 0.8M  
 ALLOWING 0.3m FREE BOARD }  
 AREA NEEDED:  $\frac{5.4}{0.8} = 6.75M^2$  SAY 7M<sup>2</sup>  
 SIZE OF UPFLOW FILTER = 3.5x2.0m  
 UPFLOW FILTER NO-1 = 3.5x1.00x0.85m  
 UPFLOW FILTER NO-2 = 3.4x1.00x0.85m

SPECIFICATIONS

- R.C.C FOOTING & COLUMN IN CONCRETE 1:2:4
- SUPER STRUCTURE STRUCTURE IN CONCRETE 1:2:4
- R.C.C 1:2:4 FOR LINTEL & ARCH
- P.C.C 1:4:8 FOR FLOOR LEVELLING COURSE
- P.C.C 1:6:10 IN BASEMENT FOR FOUNDATION
- JOINERY WITH T.W FLUSH DOORS & T.W GLAZED WINDOWS & VENTILATORS
- 3 COATS OF CEMENT PAINT TO INSIDE & OUTSIDE WALL
- 2 COATS OF EMERALD PAINTS OVER ONE COAT OF PRIMER FOR JOINERY, GRILLWORK, ETC
- WEATHERING COURSE OVER ROOF SLAB 3" THICK WITH BRICK JELLY LINE CONCRETE AND ONE LAYER OF PRESSED TILES ON TOP

AREA STATEMENTS	SQ.M
PLOT AREA	1100.00
GROUND FLOOR AREA	409.72
FIRST FLOOR AREA	409.72
SECOND FLOOR AREA	409.72
THIRD FLOOR AREA	409.72
TOTAL	1638.88

FSI - 1.499  
 PLOT COVERAGE - 37.50%

PROPOSED RESIDENTIAL FLATS AT  
 VOC STREET, PADI, CHENNAI-600050.  
 IN S. Nos 258/33 & 258/34 OF PADI VILLAGE,  
 AMBATTUR MUNICIPALITY, THIRUVALLUR DIST

SCALE : 1:100 DATE : 03-11-2001  
 JOB NO 799 DRAWN : S.R.B  
 COLOUR INDEX SHEET No - 2/2

PROPOSED BOUNDARY  
 ROAD  
 SEWER LINE

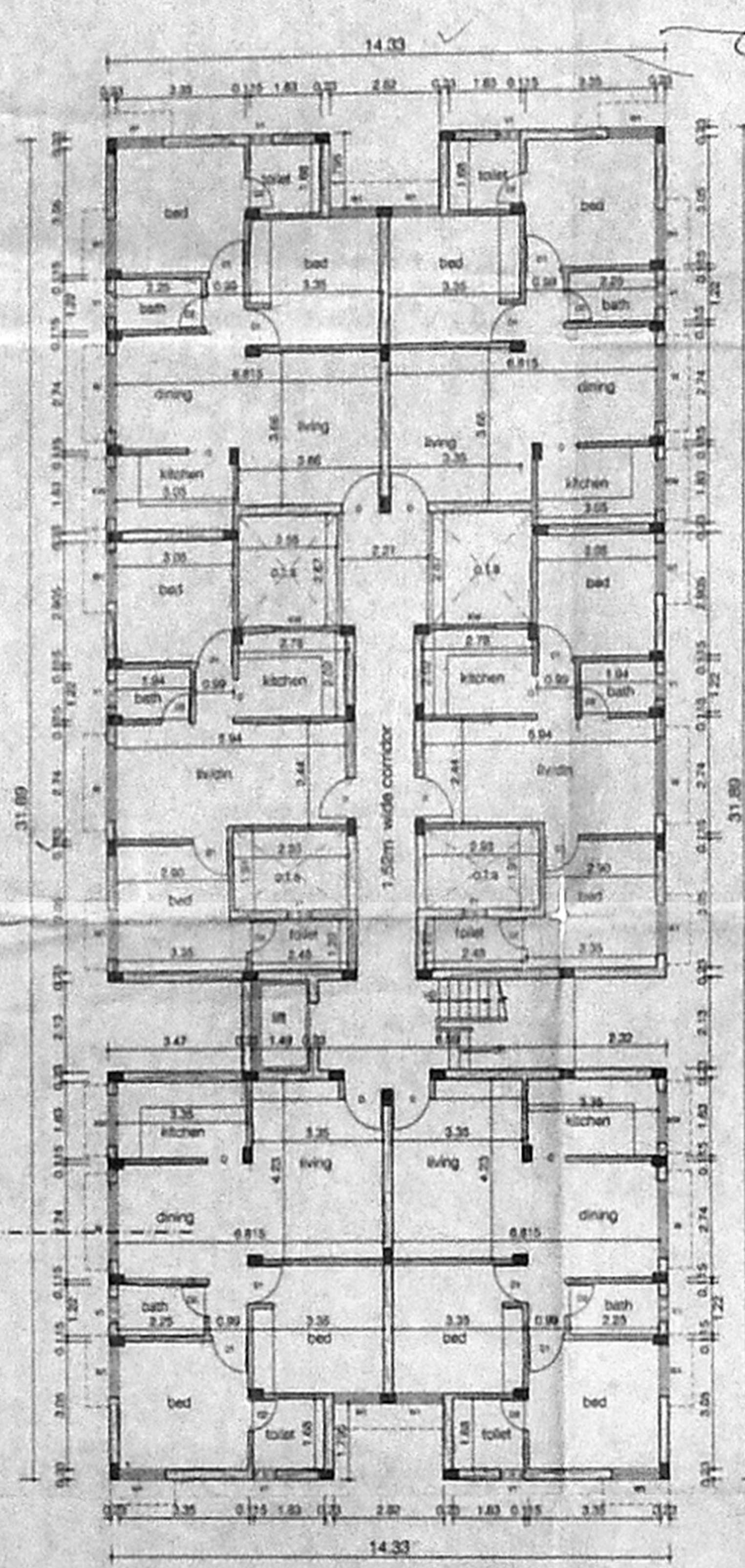
OWNER'S SIGNATURE  
 A. Gowri  
 A. Sridhar  
 A. Geetha  
 A. Anitha

ARCHITECT  
 R.SATHYANARAYANA, barch. a.i.a.  
 R. SATHYANARAYANA, barch. a.i.a.  
 COUNCIL OF ARCHITECTURE  
 CA / 66 / 9925  
 U-12, ANNA NAGAR,  
 MADRAS - 600 040

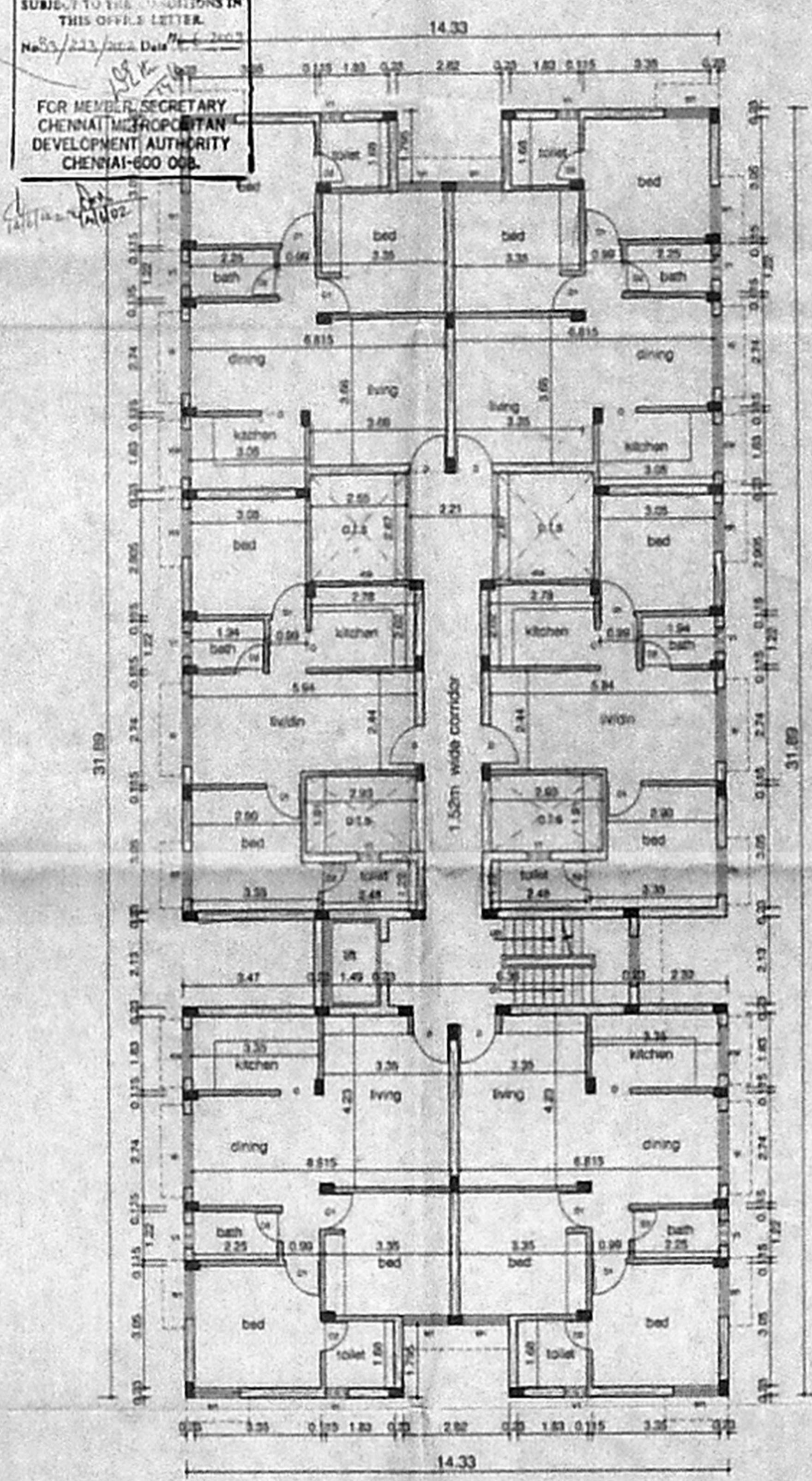


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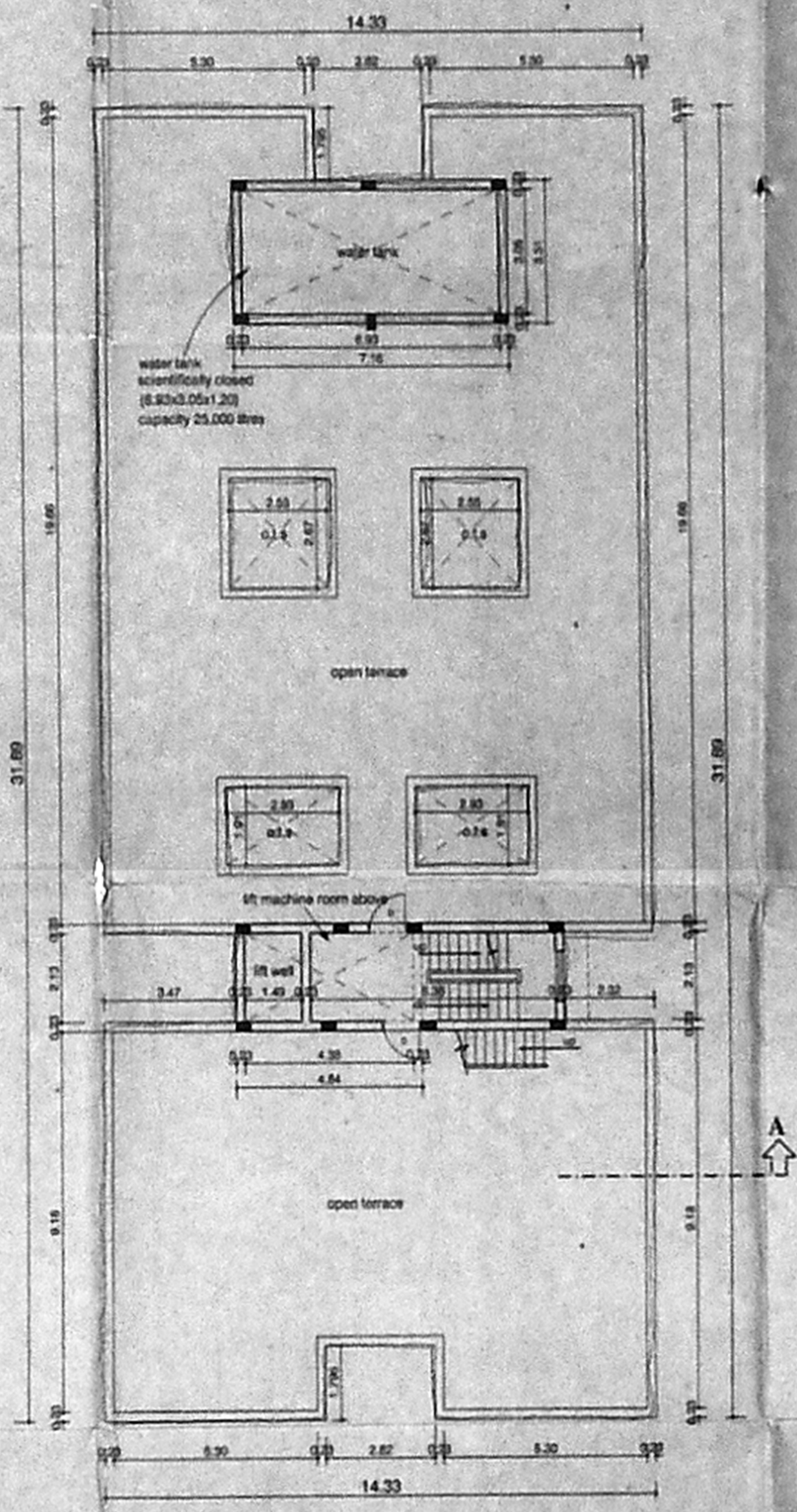
B/SR.300/2001/1002  
 Planning Permit No.  
**APPROVED**  
 SUBJECT TO THE CONDITIONS IN  
 THIS OFFICE LETTER.  
 No. 53/233/2002 Date 11-11-2001  
 FOR MEMBER SECRETARY  
 CHENNAI METROPOLITAN  
 DEVELOPMENT AUTHORITY  
 CHENNAI-600 005.



Ground floor plan



Typical floor plan(I,II&III)



Terrace floor plan

SCHEDULE OF JOINERY		QTY	SIZE
TYPE	DESCRIPTION		
D	DOOR	1000/10	
D1	DOOR	2000/10	
D2	DOOR	0.700/10	
FW	FRENCH WINDOW	1.500/40	
O	OPENING	0.900/12	
W1	WINDOW	1.800/20	
W2	WINDOW	1.200/20	
W3	WINDOW	1.200/30	
V1	VENTILATOR	0.500/30	

- SPECIFICATIONS :-**
- R.C.C FOOTING & COLUMN IN CONCRETE 1:2:4
  - SUPER STRUCTURE BRICKWORK SET IN cm 1:5
  - R.C.C 1:2:4 FOR LINTEL BEAMS ASLASH
  - P.C.C 1:4:8 FOR FLOOR LEVELLING COURSE
  - P.C.C 1:5:10 IN BASEMENT FOR FOUNDATION
  - JOINERY WITH T.V FLUSH DOORS & T.V GLAZED WINDOWS & VENTILATORS
  - 3 COATS OF CEMENT PAINT TO INSIDE & OUTSIDE WALLS
  - 2 COATS OF ENAMEL PAINTS OVER ONE COAT OF PRIMER FOR JOINERY, GILLESWORK, ETC
  - WEATHERING COURSE OVER ROOF SLAB 5" THICK WITH BRICK JELLY LIME CONCRETE AND ONE LAYER OF PRESSED TILES ON TOP

AREA STATEMENTS	SQ.M
PLOT AREA	1100.00
GROUND FLOOR AREA	409.72
FIRST FLOOR AREA	409.72
SECOND FLOOR AREA	409.72
THIRD FLOOR AREA	409.72
TOTAL	1638.88

FSI - 1.400  
 PLOT COVERAGE - 37.50%  
 PROPOSED RESIDENTIAL FLATS AT  
 VOC STREET, PADI, CHENNAI-600050.  
 IN S.Nos 258/33 & 258/34 OF PADI VILLAGE,  
 AMBATTUR MUNICIPALITY, THIRUVALLUR DIST

SCALE : 1:100	DATE : 03-11-2001
JOB NO : 799	DRAWN : S.R.B
COLOUR INDEX	SHEET No - 2/2

PROPOSED

N

A. Sathyanarayana  
 A. Sathyanarayana  
 A. Sathyanarayana  
 OWNER'S SIGNATURE

ARCHITECT  
**R.SATHYANARAYANA, B.Arch, R.I.I.B.**  
 R. SATHYANARAYANA, B.Arch, R.I.I.B.  
 COUNCIL OF ARCHITECTURE  
 60 / 25 / 9005  
 10th ANNA ROAD,  
 MADRAS - 600 040