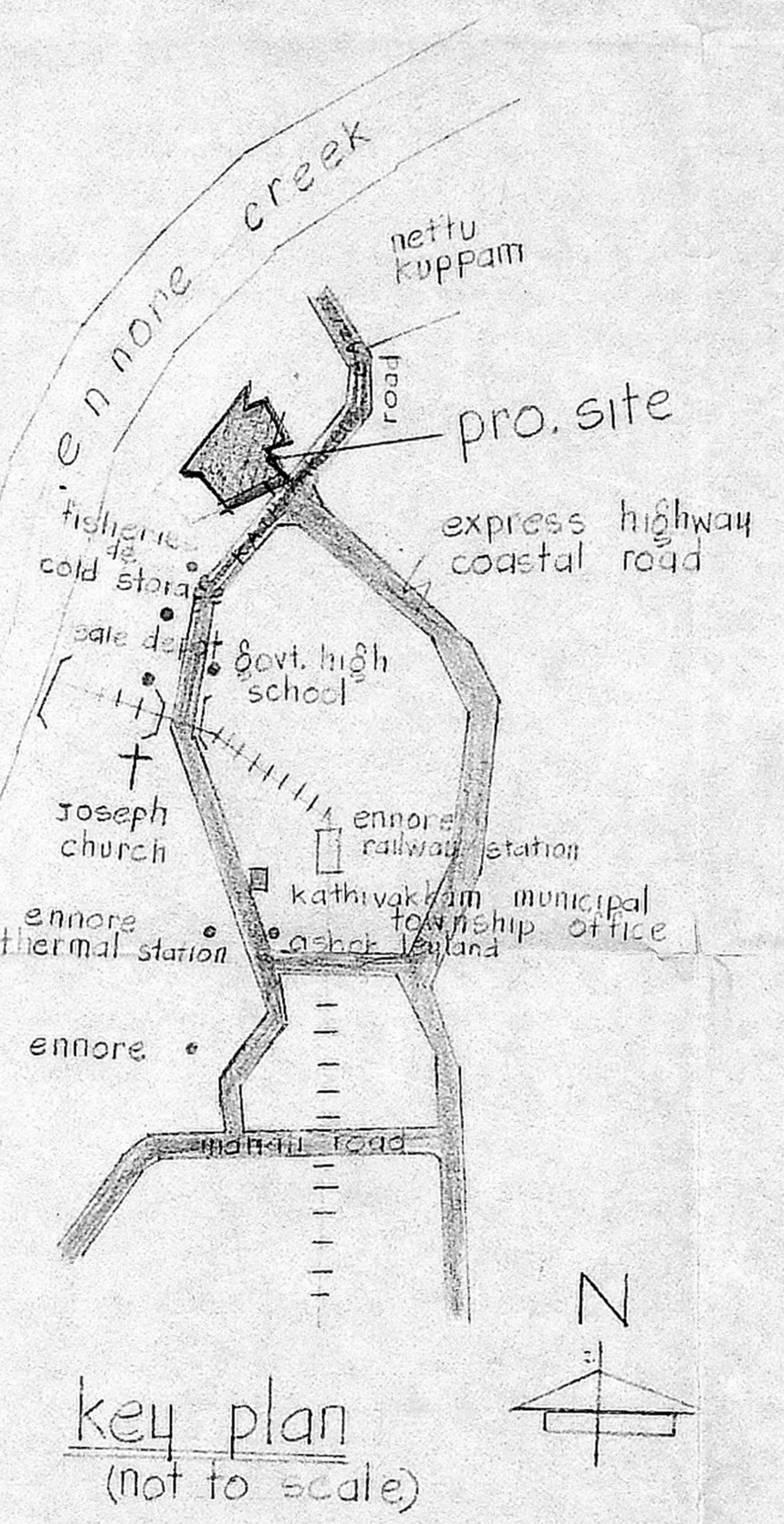
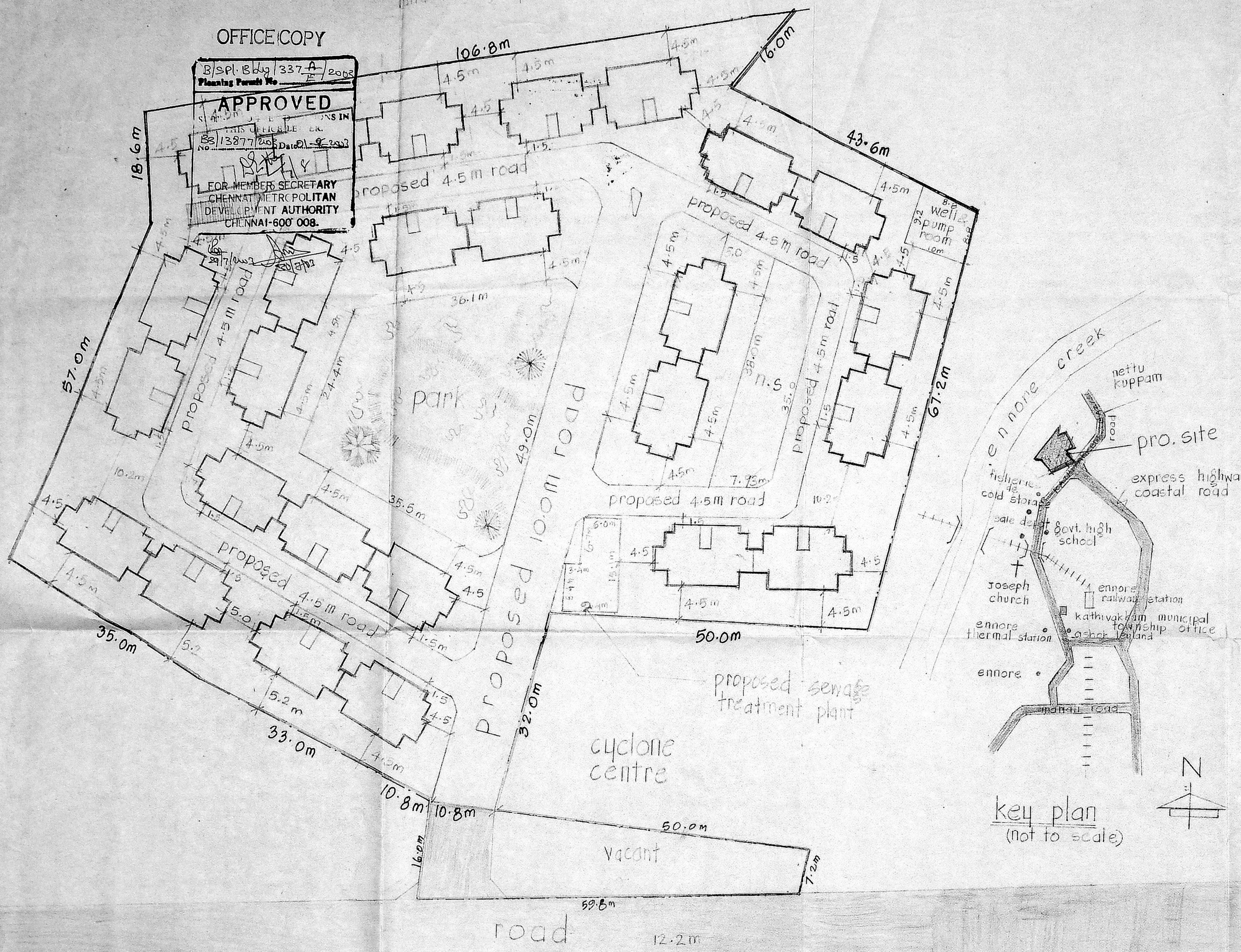


land belongs to tncsd

OFFICE COPY

B.S.P. B. No. 337-A
 Planning Permit No. 33/13877/2002 Date 9-9-2002
APPROVED
 FOR MEMBERS SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.



tamil nadu SMDA (B) No. 1
 clearance board
 C. No. E3/13877/2002
 Date 4/7/2002

revised layout for
 construction & improvements
 at thazhankuppam in
 S.No. 7/4 pt. & 7/5 pt., 8/2
 kathivakkam village,
 Chennai.

scale: 1" = 33'-0" (1:400)

reference:
 as per t.d. 3/2001 (3 storeyed)
 plinth area per tenement: 21.74 m²
 18 in one: 18 x 26 : 468
 total no. of families : 468
 extent : 1.47 hect.
 density : 318 fam/hect.
 plot coverage : 23.0 %
 floor space index : 0.69

land use details:

use	area in hect	%	notation
1. residential	0.9261	67.80%	▬
2. park & c.p.s	0.1313	8.93%	▬
3. public purpose	0.0523	3.56%	▬
4. roads	0.2370	16.12%	▬
5. vacant land	0.0927	6.32%	▬
total	1.4700	100.00%	

M. Thirumala
 28.2.2002
 planning asst.

V. Srinivasan
 28/2/2002
 asst. planner

deputy planner

(Signature)
 28/2/2002
 senior planner

chief engineer

4/7/2002

tamil nadu
Slum Clearance Board



proposed construction
of tenement
design no (3 storeyed)

CMDA (B) / 14	No. 1
C.No. 63	29575/01
Asst. 3/2001	
Scrutiny	
P.A.	SP/1/2

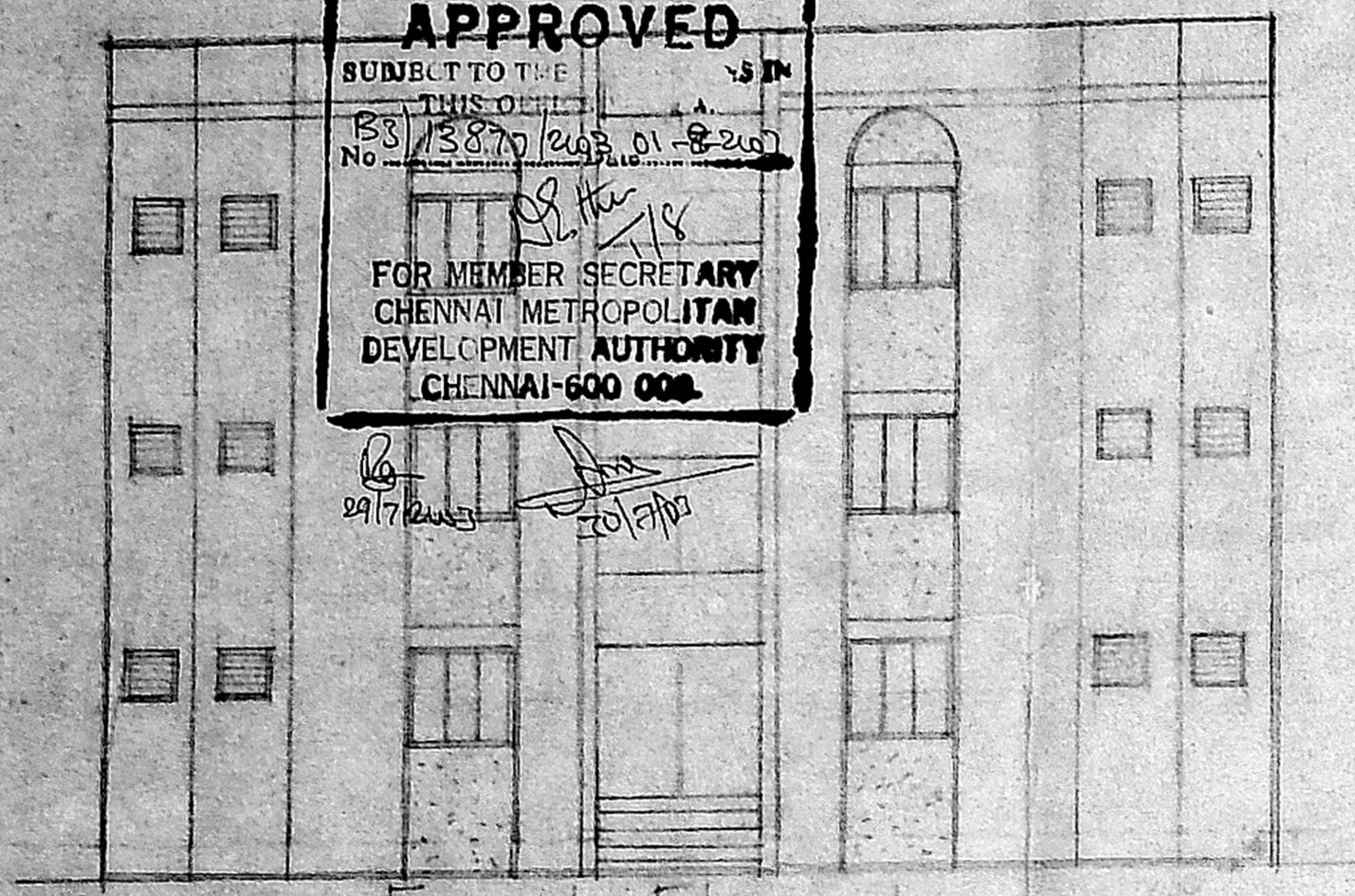
Scale: 1" = 8'0" (1:192)

- Joinery
- D. Door 3'-0" x 6'-6" (0.91 x 1.98)
 - D. " 2'-6" x 6'-0" (0.76 x 1.83)
 - W Window 4'-6" x 4'-0" (1.37 x 1.22)
 - V R.C.C jally vent 2'-0" x 2'-0" (0.61 x 0.61)

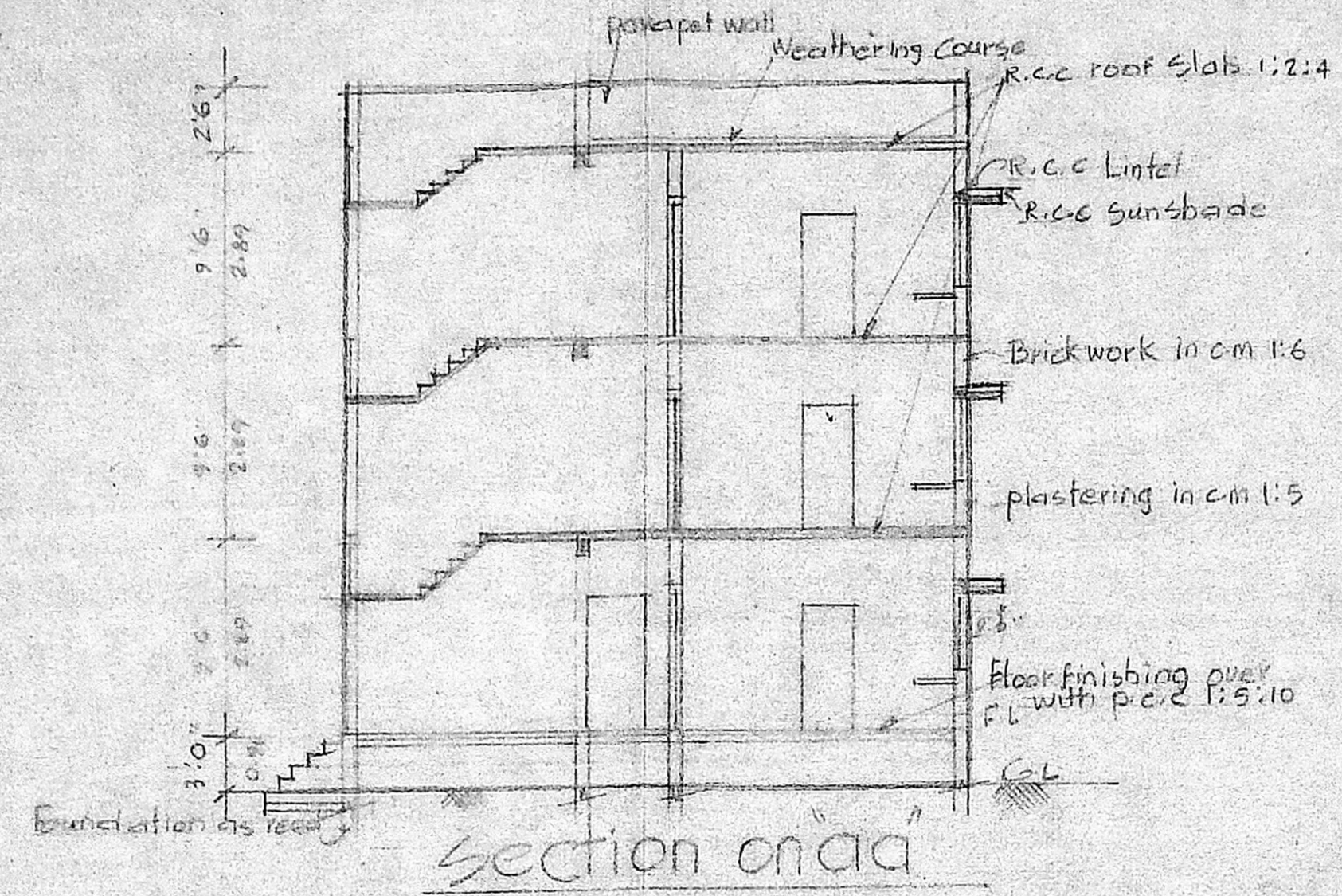
Plinth area: 234 sqft (21.74 sqm)/unit

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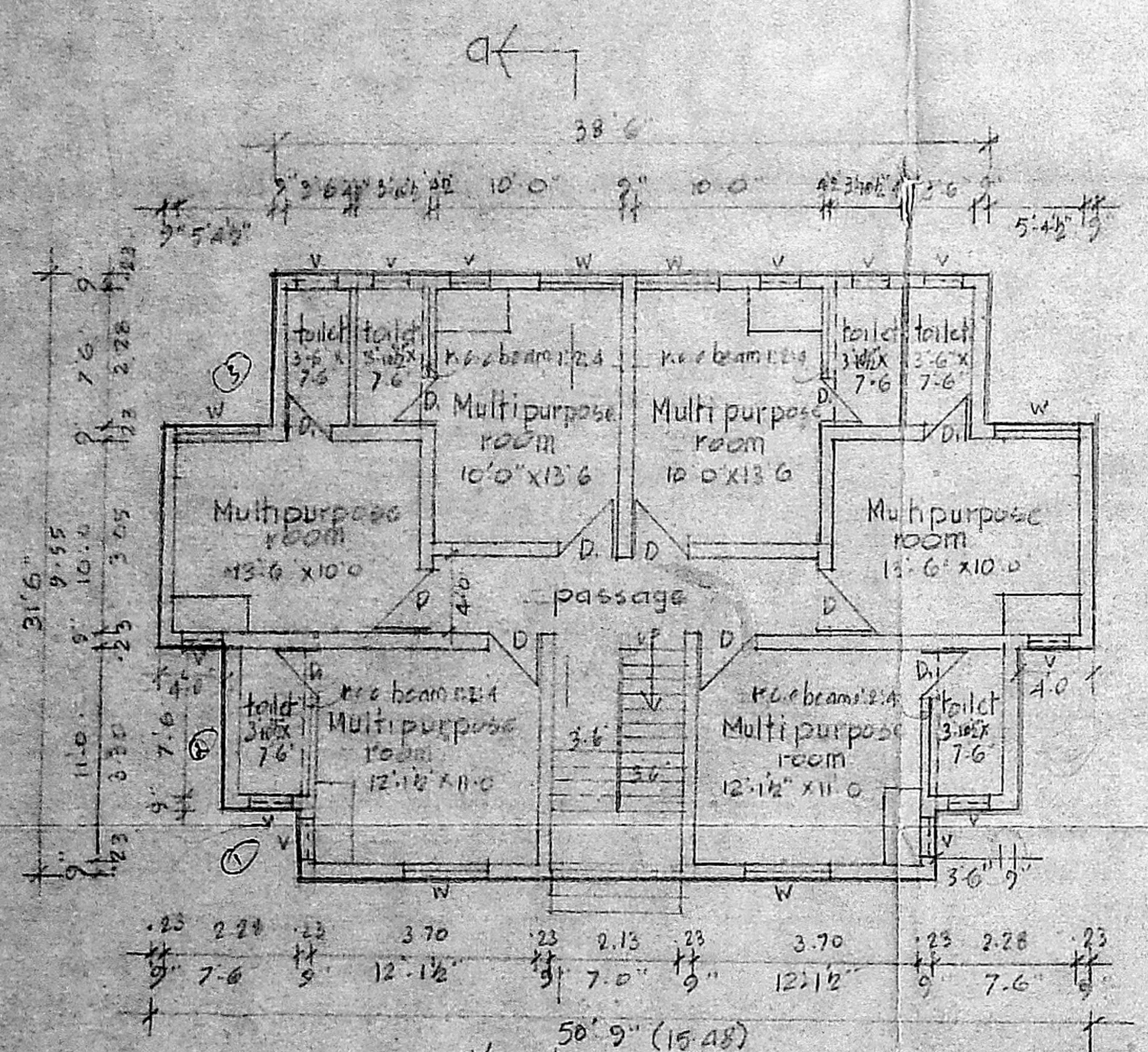
BSP/1879/337 B/2001
APPROVED
SUBJECT TO THE
THIS O
No. 13879/2001 OI-8-2001
FOR MEMBER SECRETARY
CHENNAI METROPOLITAN
DEVELOPMENT AUTHORITY
CHENNAI-600 008.



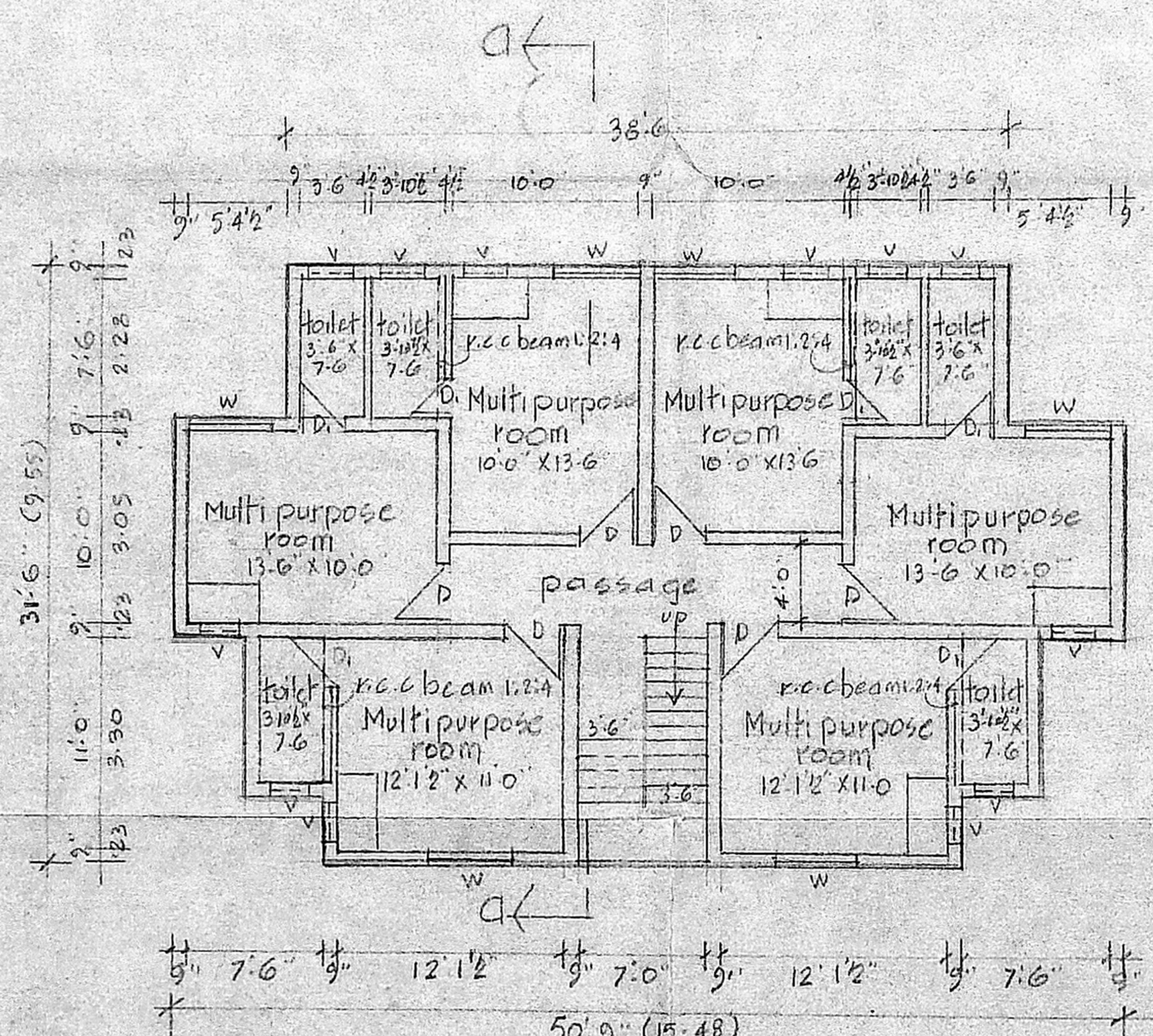
Front Elevation



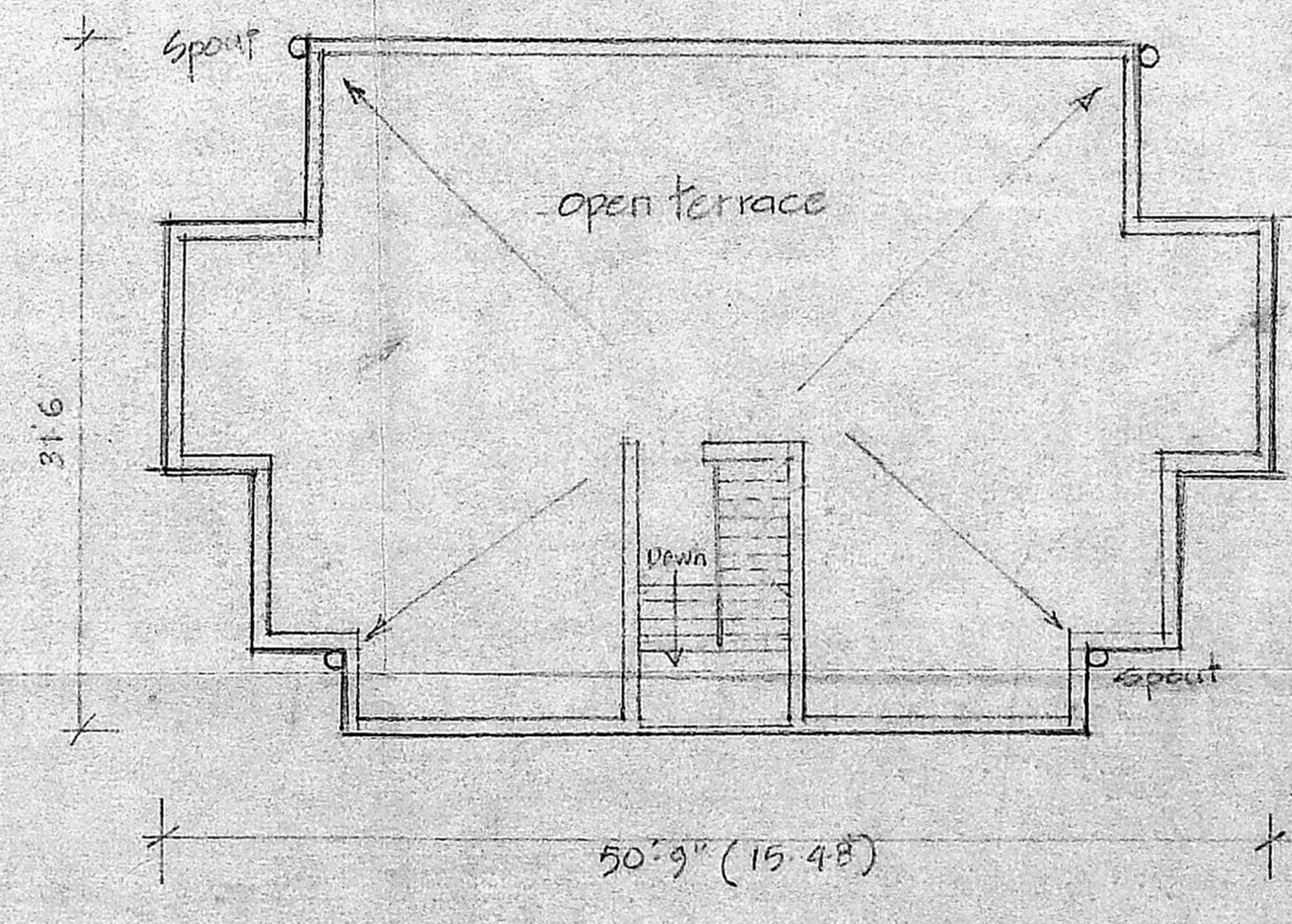
Section on 'a-a'



Ground Floor Plan



First Floor Plan & Typical Floor Plan



terrace Floor plan

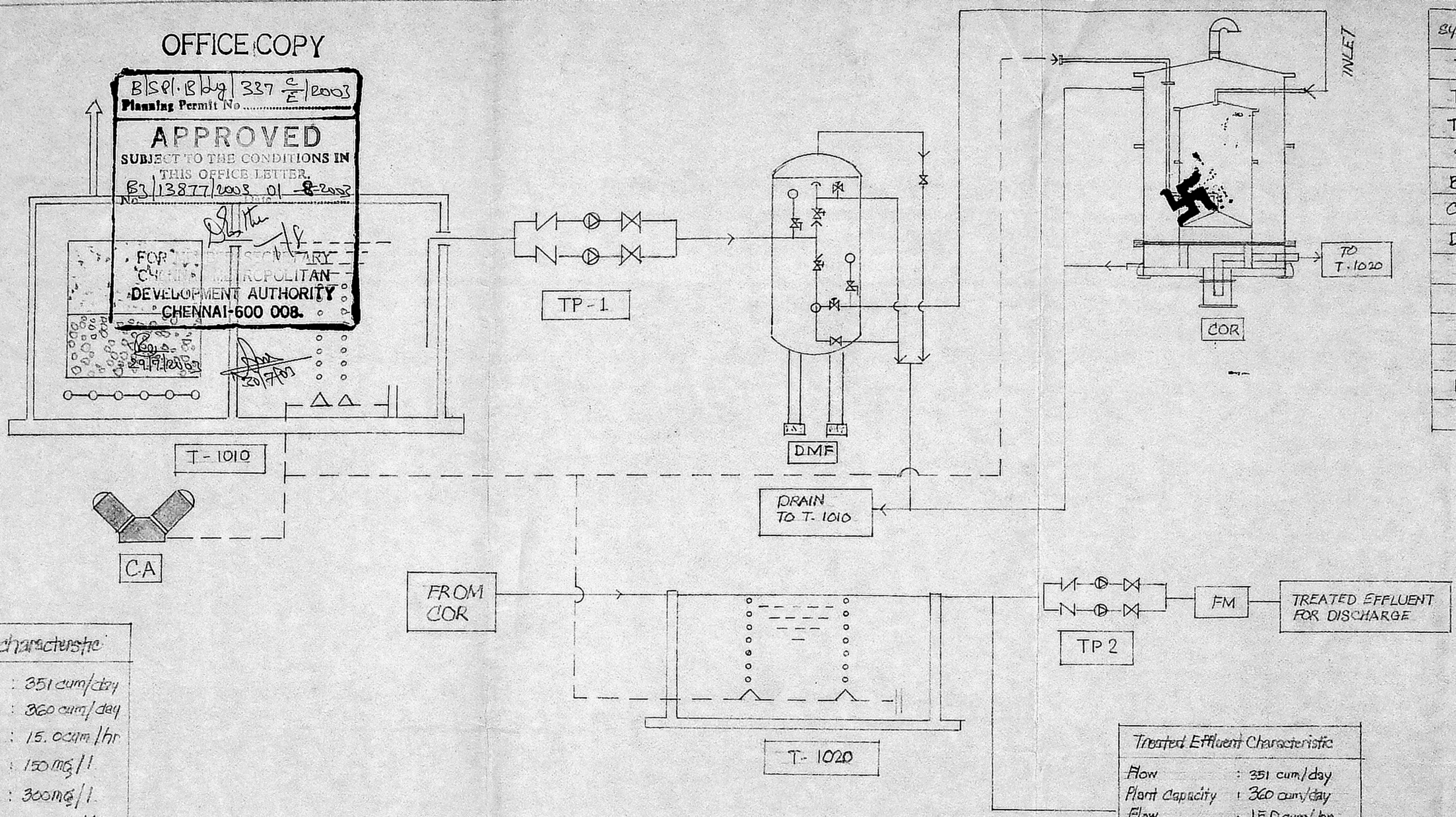
T. 4.07.2001
Planning Asst. Asst. Planner

Senior Planner Chief Engineer

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BSP. Bldg 337 E/2003
 Planning Permit No. B3/13877/2003_01 - 2003
APPROVED
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
 No. B3/13877/2003_01 - 2003
 FOR THE CHIEF METROPOLITAN DEVELOPMENT AUTHORITY CHENNAI-600 008.

RAW SEWAGE FLOW: 15.0 cum/hr



symbol	abbreviation
T	tank
TP	transfer pump
TDS	total dissolved solids
SS	suspended solids
BOD	bio-chemical oxygen demand
COD	chemical oxygen demand
DMF	dual media filter
M	ball valve
⊕	working pump
N	non-return valve
⊗	diaphragm valve
FM	flow meter
△	snap cap diffuser

CMDA (B) / No. C.No. B3/13877/2003
 Asst. Scrutiny P.A. 17/6/2003
 AP

Treated effluent characteristic

Flow	: 351 cum/day
plant capacity	: 360 cum/day
Flow	: 15.0 cum/hr
SS	: 150 mg/l
BOD	: 300 mg/l
COD	: 550 mg/l
TDS	: 1000-1200 mg/l

Treated Effluent Characteristic

Flow	: 351 cum/day
Plant Capacity	: 360 cum/day
Flow	: 15.0 cum/hr
SS	: 150 mg/l
BOD	: 300 mg/l
COD	: 550 mg/l
TDS	: 1000-1200 mg/l

not to scale

tamil nadu stum clearance board

sewage treatment plant general flow sheet.

proposed dwelling units in s.no 7/4pt, 7/5pt & 8/2 of kathivakkam village chennai

SI No	IQ No	name of unit	nos	capacity
1	TP-1	raw sewage transfer pumps	2	22.5 cum/hr @ 8 m/h
2	DMF	dual media filter	1	4.5 cum/hr
3	COR	carbon oxidation reactor	1	4.5 cum/hr
4	TP-2	treated effluent transfer pumps	2	22.5 cum/hr @ 8 m/h
5	CA	compressed air	1	25 cfm x 2 hr

SI No	IQ No	name of the unit	nos	size in meters
1	7-1010	collection tank / coarse bubble upflow filter	1	9.0 X 8.0 X 5.0 M + 0.6 (FB)
2	7-1020	treated effluent collection tank	1	6.5 X 5.6 X 5.0 M + 0.6 (FB)

SARAJANAN, D.C.E.
 Licenced Surveyor
 Class-I Licence Holder & Registered Contractor
 METRO-WATER
 Office: A-34, Annanagar East, Madras-600102. Phone: 6261894
 Res: No 14-A, Berevary Road, Shenoy Nagar, Madras-600111
 Plumber

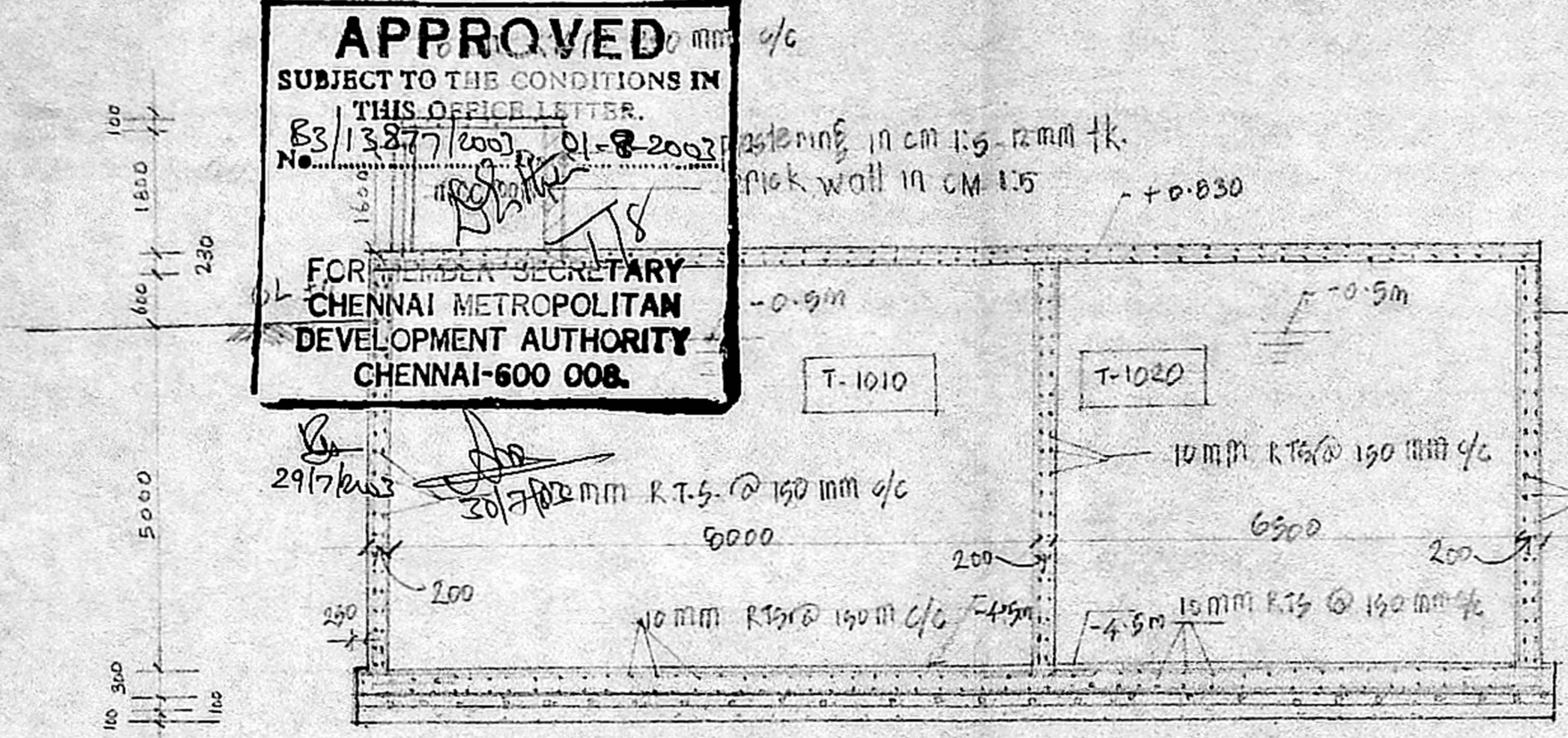
V. Srinivasulu
 AP Insens.

for chief engineer

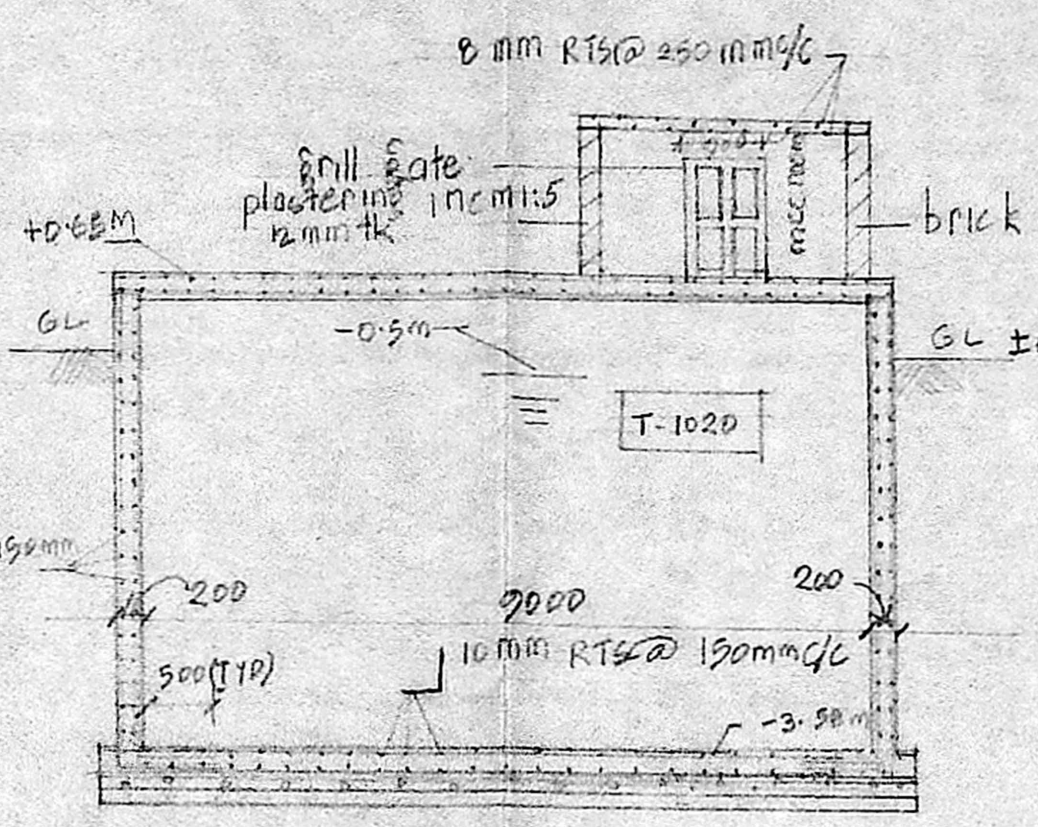
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B/S.P. Bldg/337 D/E/2003
 Planning Permit No.
APPROVED
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
 No. B3/13877/2003 Dt. 01-8-2003
 FOR MEMBER SECRETARY
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
 CHENNAI-600 008.

Revised Plan
 Dt:
CMDA (B) / No. 1
 C. No B3/13877/2003
 Asst
 Scrutiny
 P. A.
 A.P. D.P.

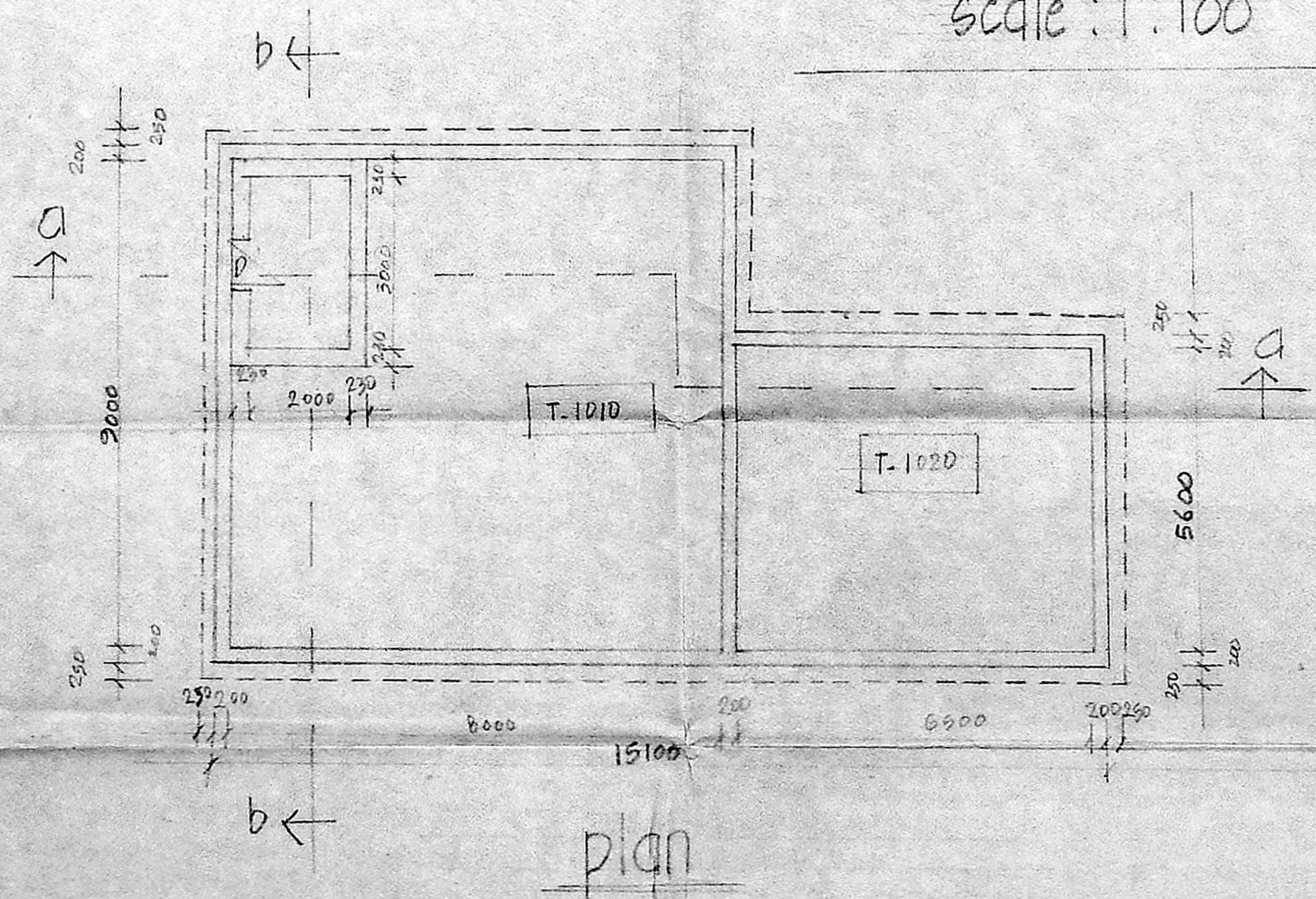


section on 'aa'



section on 'bb'

scale : 1 : 100



plan

tamilnadu slum clearance board

notes

1. all dimensions are in milli metre
2. all levels are in metre
3. rcc to be of m 20 grade
4. D. door - 900x1600

sewage treatment plant construction details of collection tank/anaerobic up flow filter

proposal proposed dwelling units in S.no.7/4 Pt. 7/5 Pt. 2 & 2/2 of kathivakkam village chennai

T. SHRAVANAN, D.C.E.
 Licenced Surveyor
 Class-I Licenced Holder & Registered Contractor
 METRO WATER

for chief engineer

V. Theinvel

AP/TNSCB -

Office: A-34, Innanagar East, Madras-600 102. Phone: 6761100

Resi. No. 11, Beremary Road, Shenay Nagar, Madras-600 111

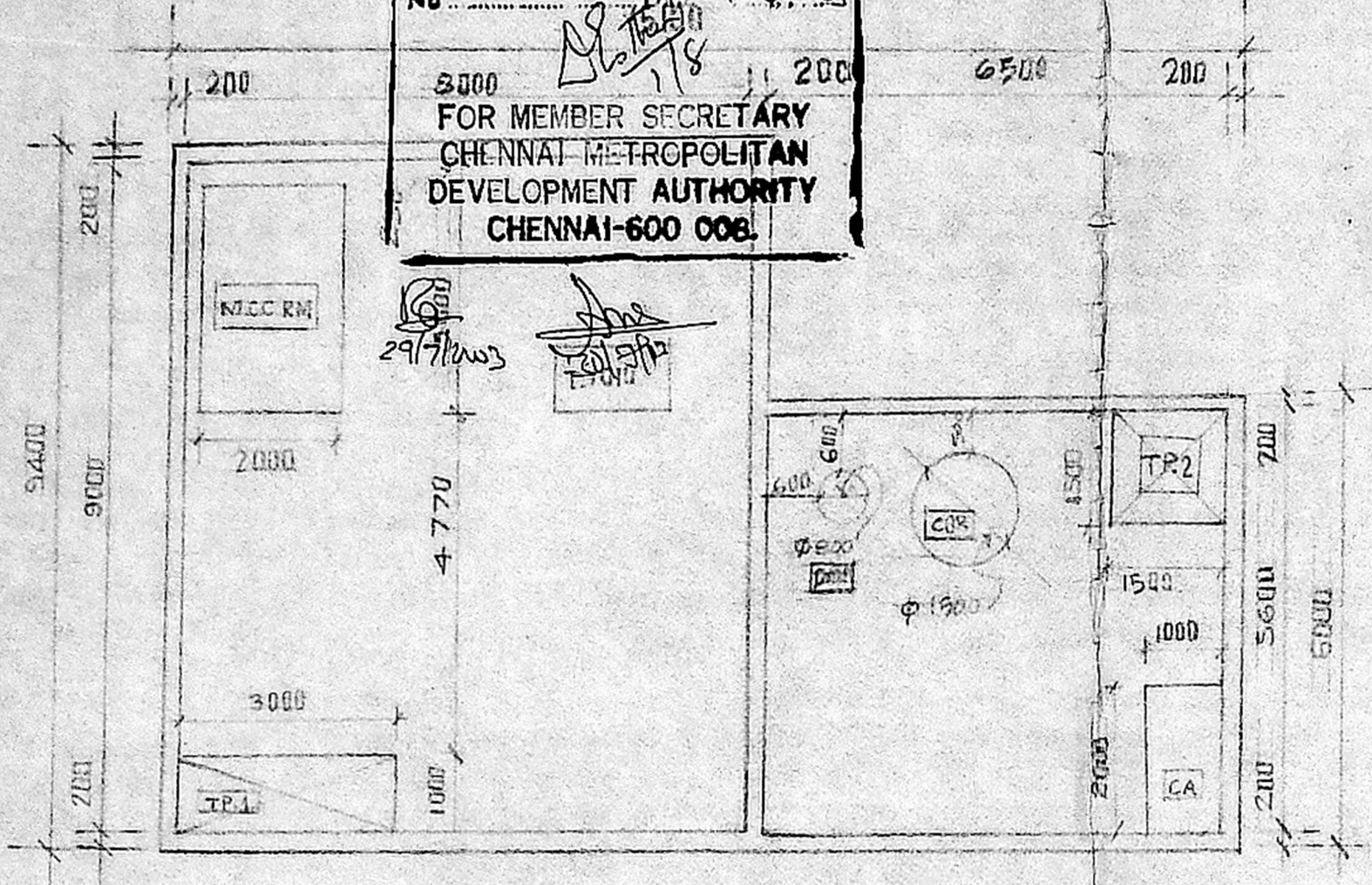
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BSPC/B/2/337 E/2003
Planning Permit No.

APPROVED

SUBJECT TO THE
THIS OFFICE
No. B3/13877/2003 01-8-2003

FOR MEMBER SECRETARY
CHENNAI METROPOLITAN
DEVELOPMENT AUTHORITY
CHENNAI-600 006



tamil nadu
clearance

CMDA (B)/C No. No. 1
C No. B3/13877/2003

Asst. Scrutiny
P.A.

17/11/03

A.P. D.P.

Drawing title:
sewage treatment plant
equipment layout

proposal:-
proposed dwelling units in
S.No 7/4 pt, 7/5 pt & 8/2 of
Kathivakkam village, Chennai.

Notes:
All dimensions are in
milli metres.

Licensed plumber:

FOR, chief engineer.

Scale:- 1:100

Equipment schedule (Mechanical):-

S.No	Tag No	Name of unit	NOS	Capacity
1.	TP.1	RAW sewage transfer pumps	2	22.5 cum/hr @ 8mh
2.	DMF	Dual Media filter	1	4.50 cum/hr
3.	GOR	Carbon oxidation reactor	1	4.5 cum/hr
4.	TP.2	Treated Effluent transfer pump	2	22.5 cum/hr @ 8mh
5.	CA	Compressed Air	1	25 cfm x 2 HP

Equipment schedule (Civil)

Sl. No	Tag No	Name of the unit	NOS	Size in Meters
1	T. 1010	collection tank/Anaerobic upflow filter	1	9.0 x 8.0 x 5.0 M (LD) + 0.60 M (FB)
2	T. 1020	Treated Effluent tank	1	6.5 x 6.0 x 5.0 M (LD) + 0.60 M (FB)
3	M.C.C ROOM		1	3.0 x 2.0 x 1.8 M (TH)

V. J. Suresh
A.P./INSUR.

T. SARAVANAN, D.C.E.
Licenced Surveyor
Class-I Licence Holder & Registered Contractor
METRO-WATER

Office: A-34, Annanagar East, Madras-600102. Phone: 6261894

Res: No 14-A, Berevary Road, Shenoy Nagar, Madras-600031