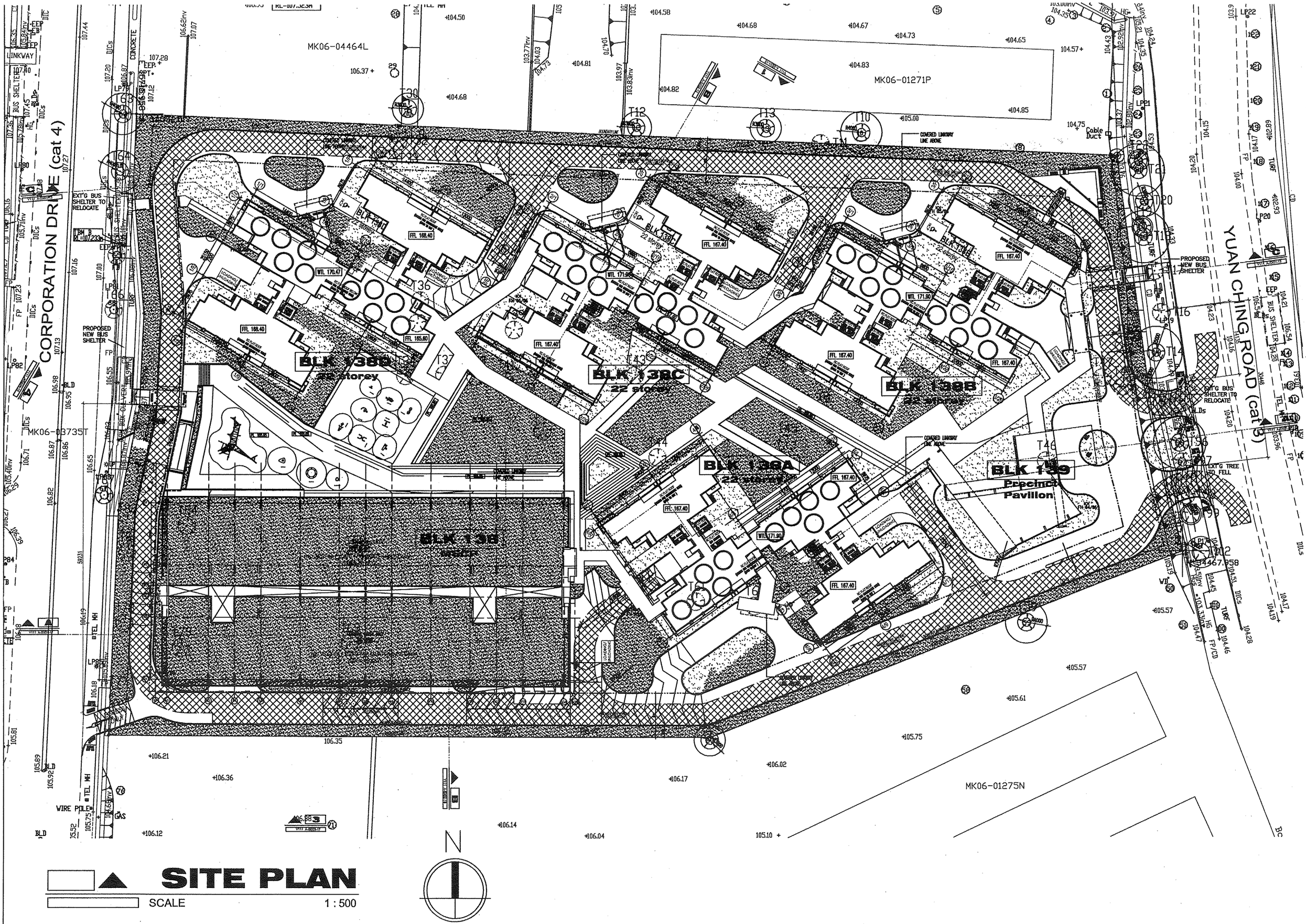
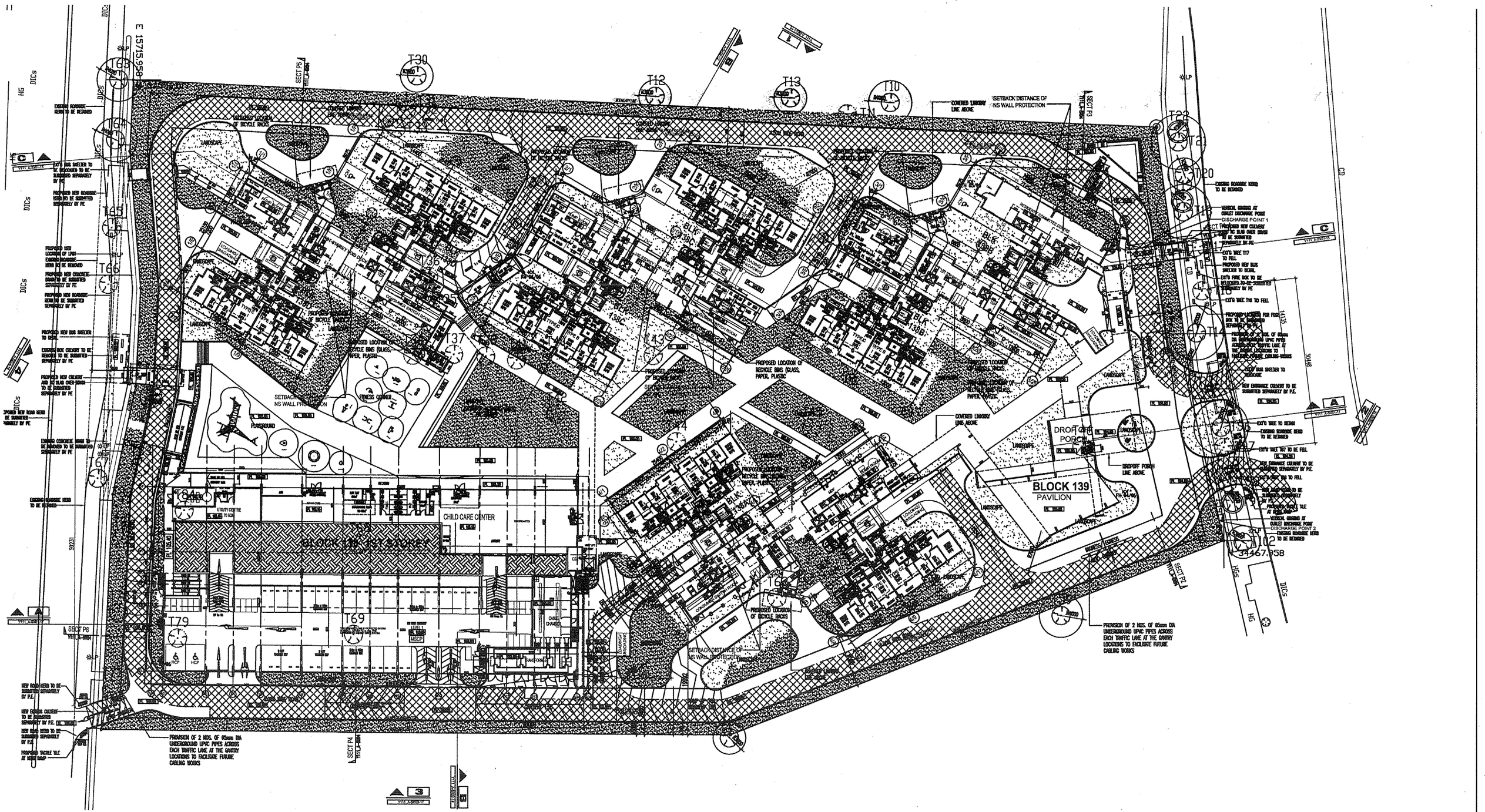
CASE STUDY 1

PROPOSED DBSS PUBLIC HOUSING DEVELOPMENT COMPRISING 4 BLOCKS OF 22 STOREY RESIDENTIAL UNITS, 1 BLOCK OF 7 STOREY MULTI-STOREY CARPARK & ANCILLARY FACILITIES (TOTAL: 682 UNITS)

CD SHELTER ARCHITECTURAL PLANS

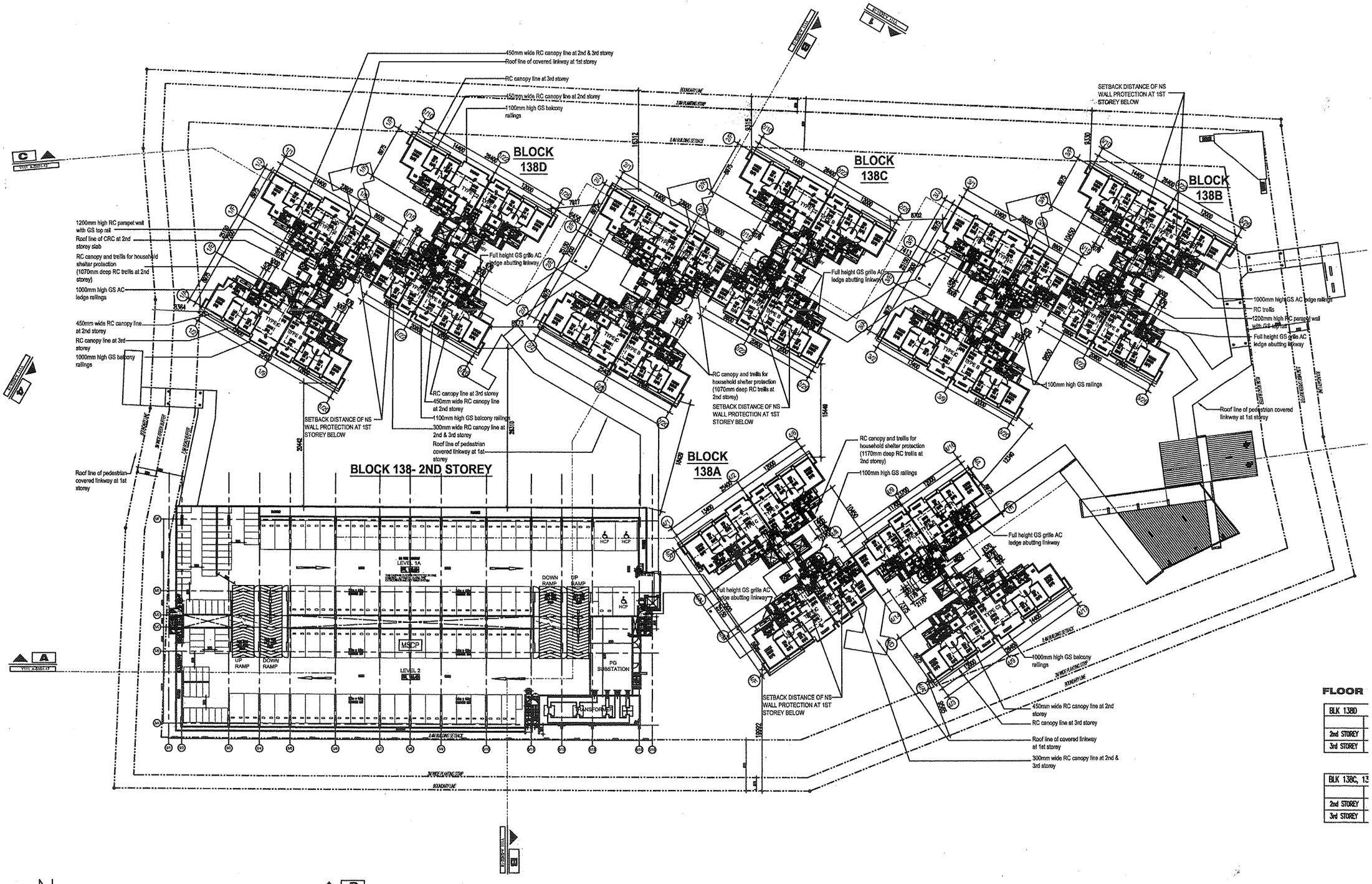
DATA OF HOUSEHOLD SHELTER					
DWELLING UNIT TYPE	GFA OF UNIT (M2)	NO OF HS	AREA OF HS (M2)	VOLUME OF HS (M3)	SHELTER TYPE
TYPE A	59.9	145	2.24	5.77	HA
TYPE B	80.7	102	2.8	7.21	HA
TYPE B1	79.1	156	2.8	7.21	HA
TYPE B2	78.0	21	2.8	7.21	HA
TYPE C	93.7	52	2.8	7.21	HA
TYPE C1	89.1	78	2.8	7.21	HA
TYPE C2	96.5	50	2.8	7.21	HA
TYPE C3	92.0	78	2.8	7.21	HA


CORPORATION DRIVE (cat 4)
YUAN CHING ROAD (cat B)
BLK 138D
22 storey
BLK 138C
22 storey
BLK 138B
22 storey
BLK 138A
22 storey
BLK 138
BLK 139
Precinct Pavilion
MK06-04464L
MK06-01271P
MK06-03735T
MK06-01275N
PROPOSED NEW BUS SHELTER
EXT'G BUS SHELTER TO RELOCATE
EXT'G TREE TO FELL
LINKWAY
CONCRETE
COVERED LINKWAY LINE ABOVE
LOADING/UNLOADING
WIRE POLE
TEL MH
GAS
FFL 167.40
FFL 168.40
FFL 165.60
WTL 170.47
WTL 171.90
N
SITE PLAN
SCALE 1 : 500



1ST STOREY PLAN

SCALE 1 : 400



FLOOR

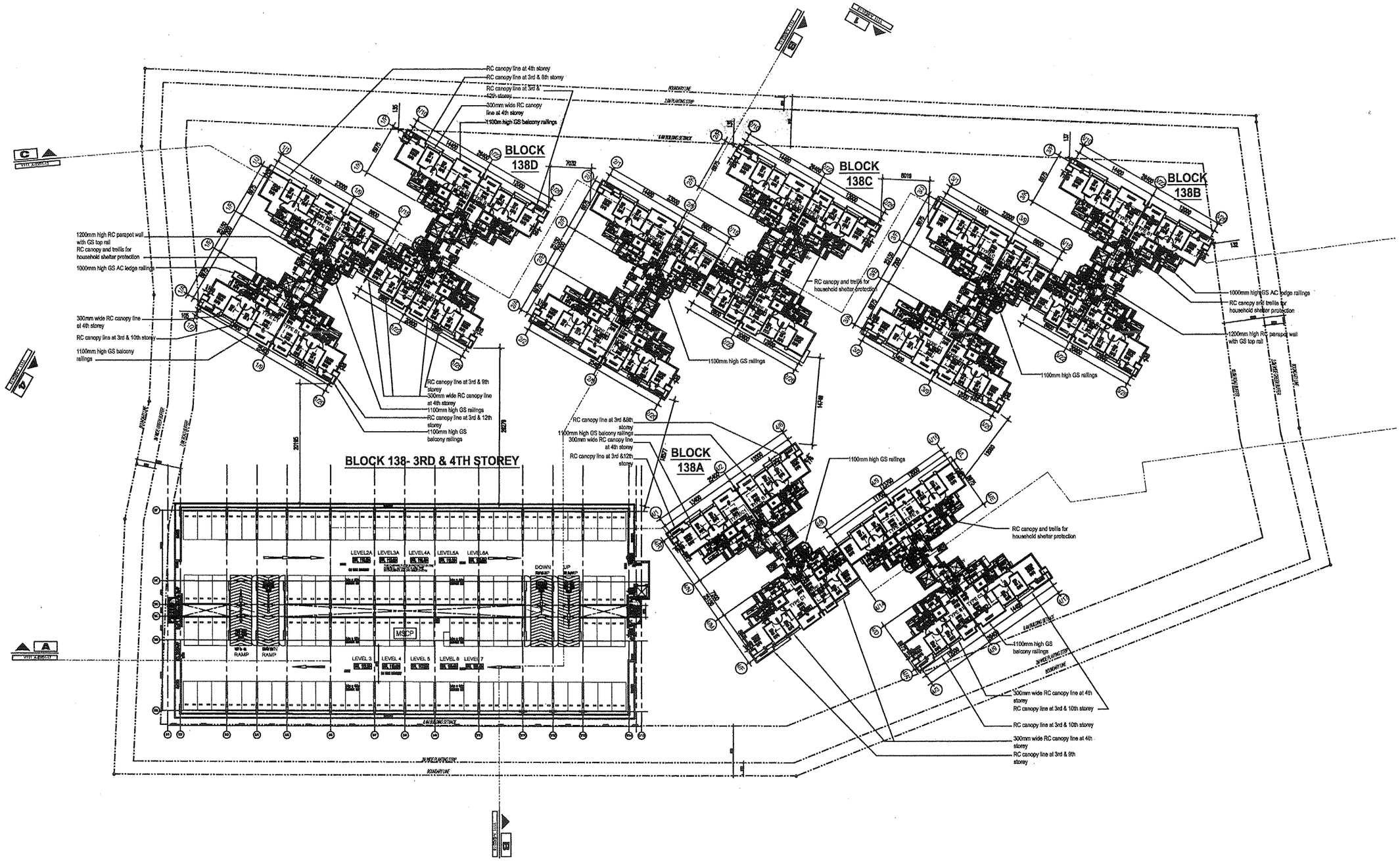
BLK 138D
2nd STOREY
3rd STOREY

BLK 138C, 13
2nd STOREY
3rd STOREY

N

2ND & 3RD STOREY PLAN

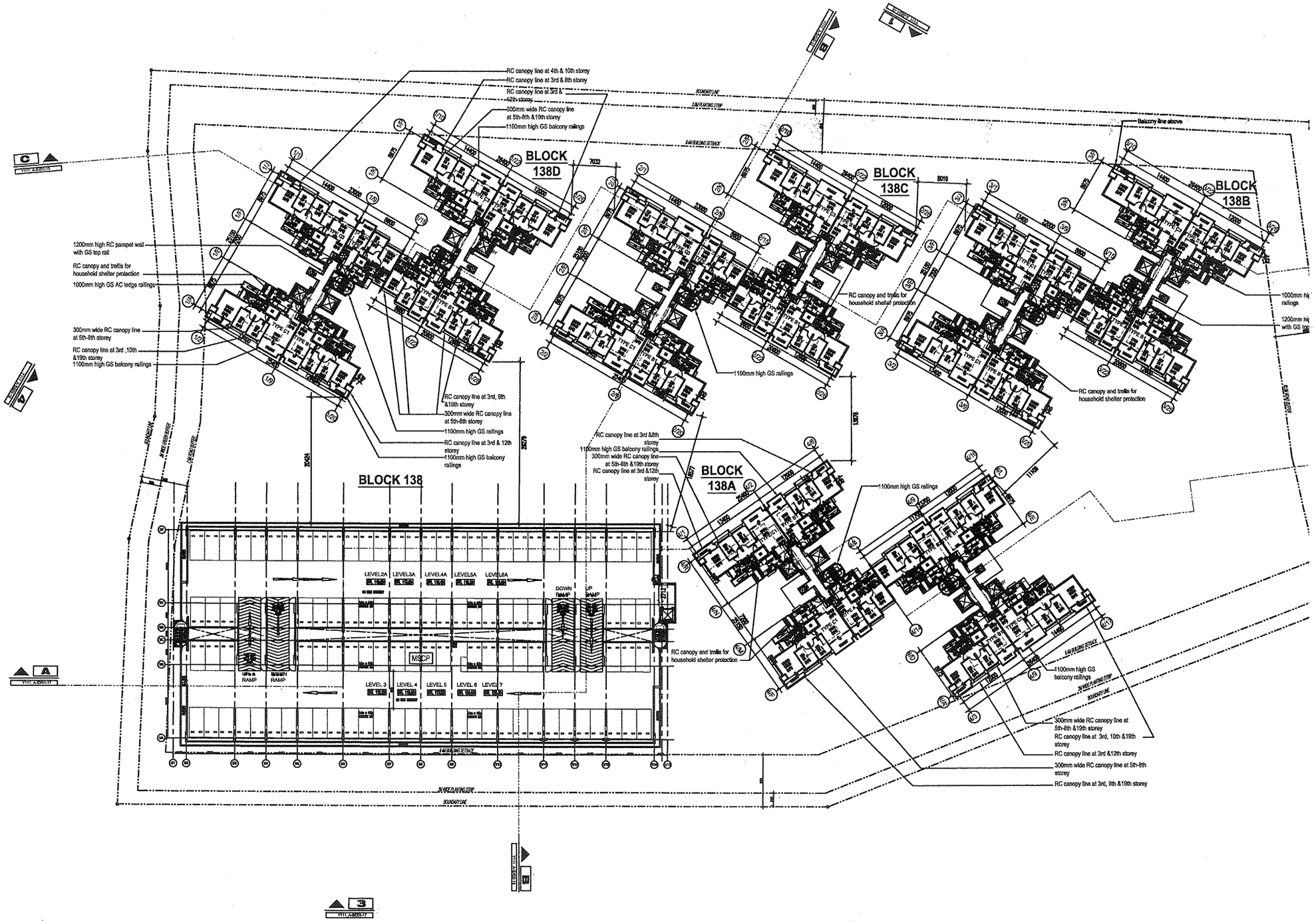
SCALE 1 : 400



N

4TH STOREY PLAN

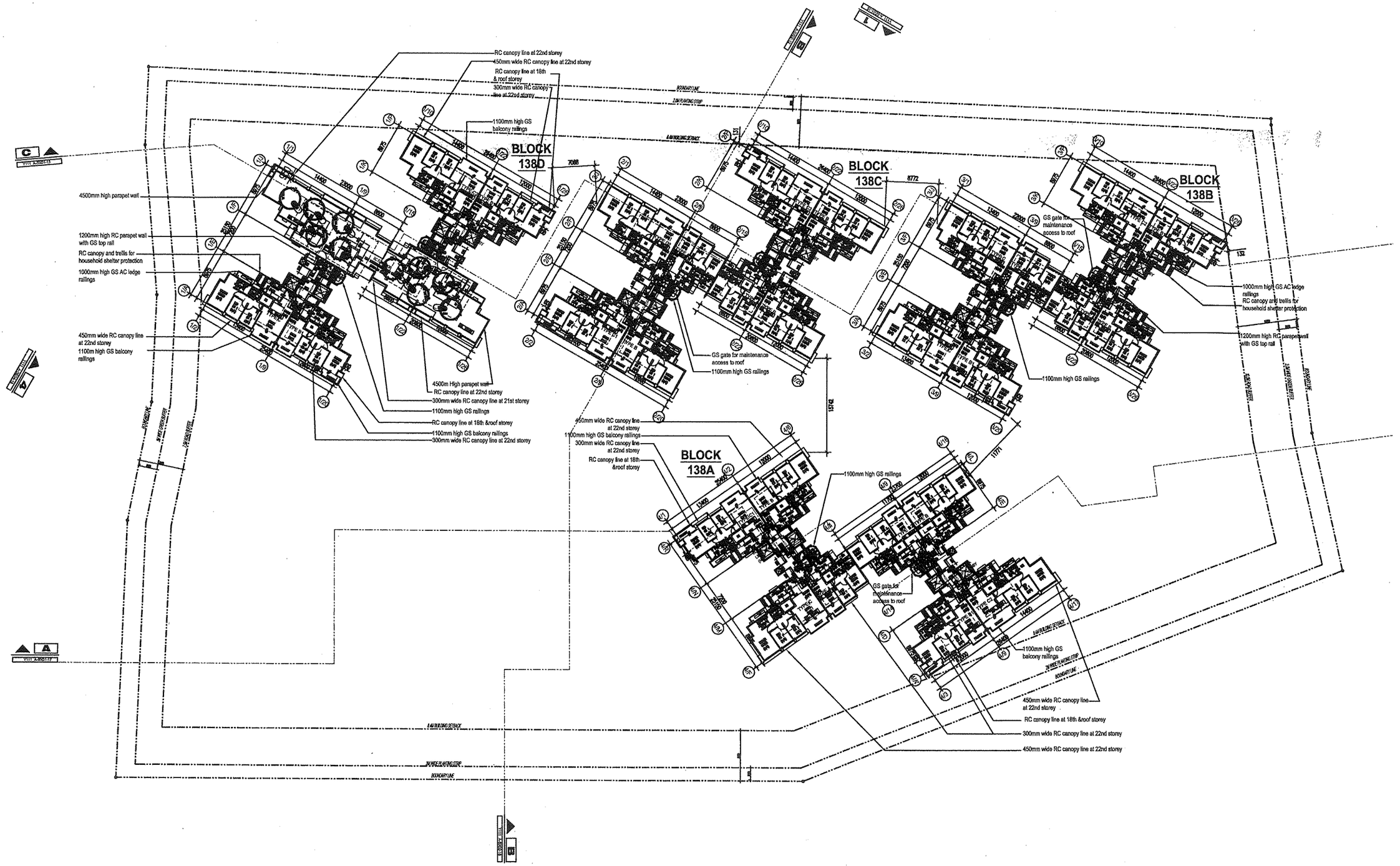
SCALE 1 : 400



N

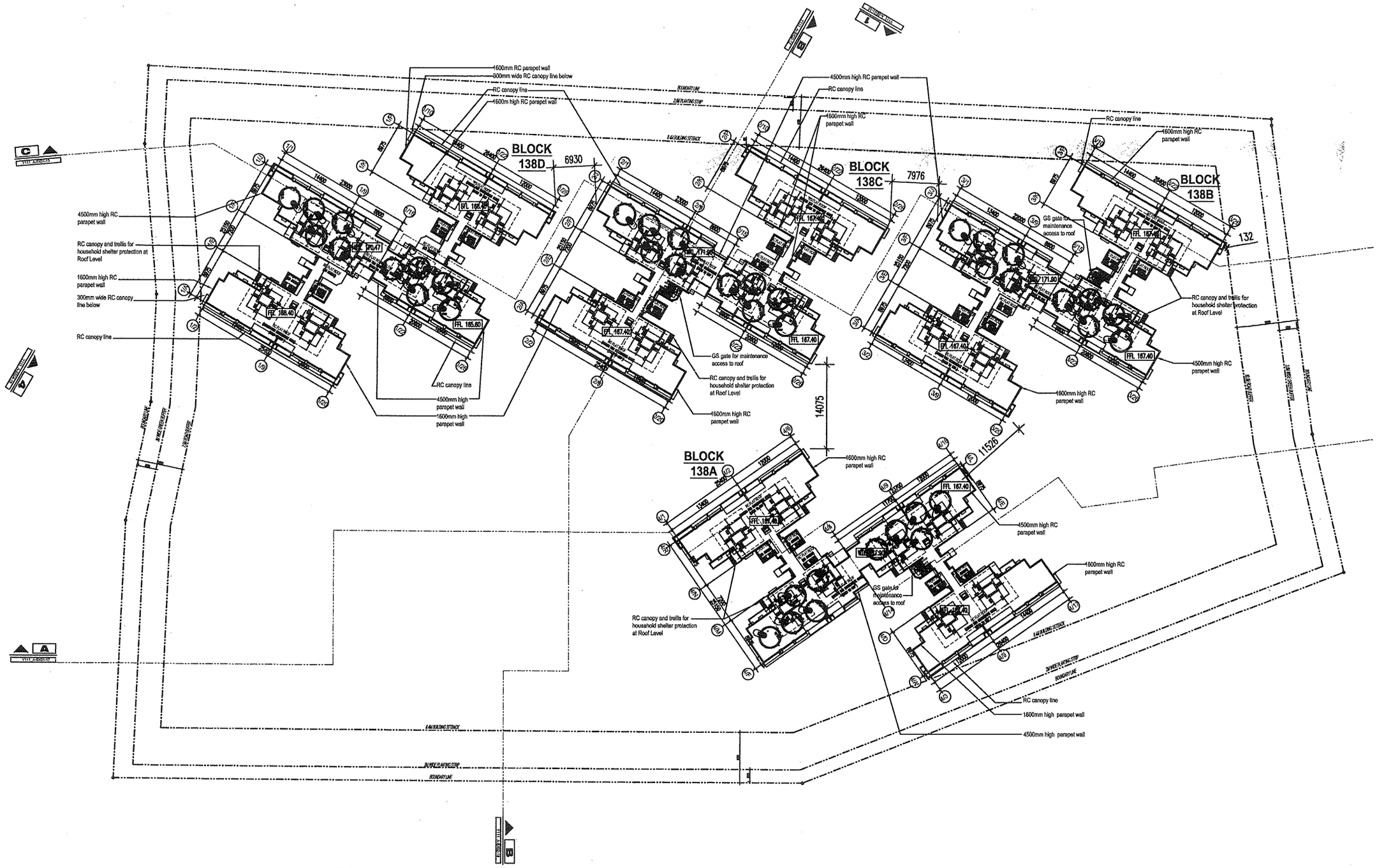
5TH, 6TH, 7TH, 8TH, & 19TH STOREY PLAN

SCALE 1 : 400



22ND STOREY PLAN

SCALE 1 : 400



ROOF STOREY PLAN

SCALE 1 : 400

HOUSEHOLD SHELTER REQUIREMENTS

a) All walls & slab to be of reinforced concrete.

b) Flammable and brittle material like bricks, wood, any wood, any wood-by-products, abestos-cement, gypsum, all types of plaster, wall tiles, glass, ceramic wall tiles and material that emits toxic gases are prohibited.

c) The internal finish of the HS walls & ceiling shall be smooth with a cast concrete finish.

d) The surface finish of the walls & ceiling of the HS may be made using a finish skim coat not thicker than 2mm. Other finishes to be used shall be approved by the Authority.

e) No tiles or plaster shall be laid on walls & ceiling inside the HS.

f) All floor tiles/finishes are allowed if these are founded on a cement mortar screed base.

g) Skirting material on cement mortar wall base are allowed up to a maximum of 100 mm height above floor level.

h) Only services cable serving the HS are permitted in the HS walls & slabs.

NOTES :

1) Service cable piping 25mm dia.

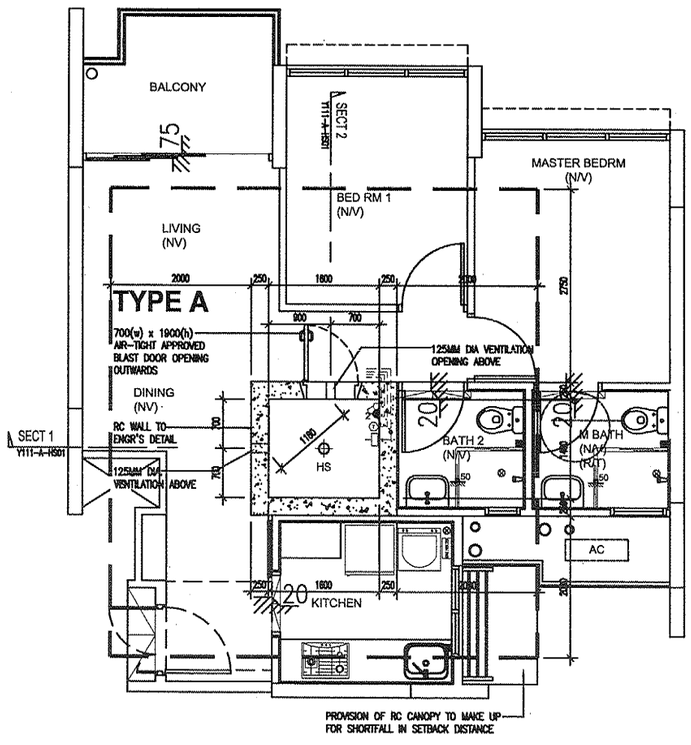
2) All Service cable piping is to be embedded between reinforcements.

3) All other Services that do not serve the HS do not penetrate into the HS walls or ceiling.

LEGEND

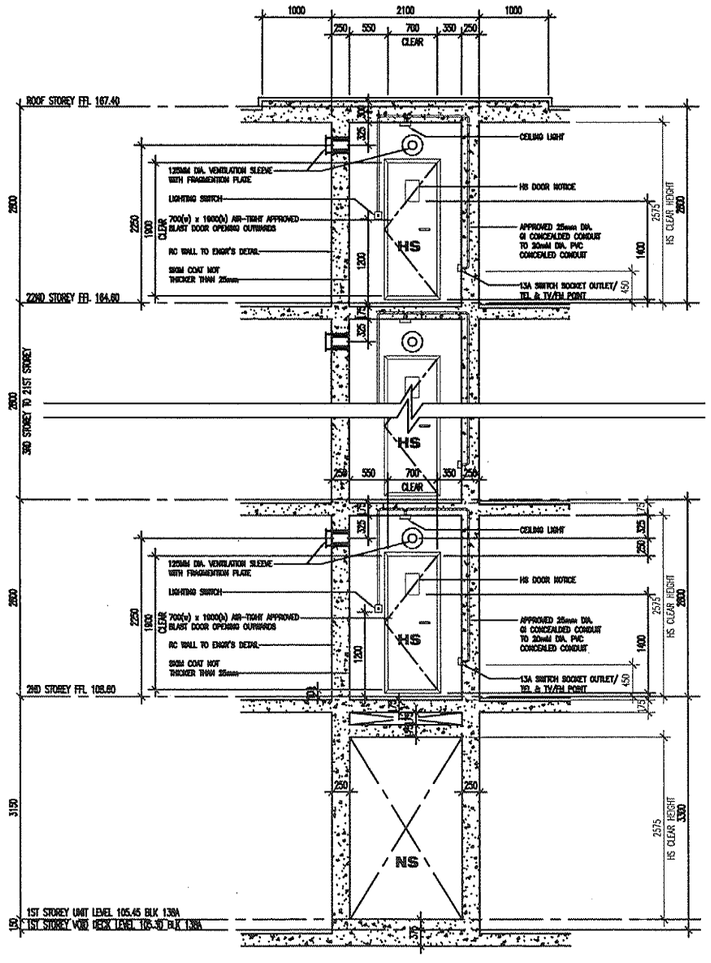
- Power Sockets (2 Power Points provided)
- Telephone outlets
- Radio and TV atenna outlet
- Lighting
- Light Switch

DATA OF HOUSEHOLD SHELTER					
DWELLING UNIT TYPE	GFA OF UNIT (M2)	NO OF HS	AREA OF HS (M2)	VOLUME OF HS (M3)	SHELTER TYPE
TYPE A	59.9	145	2.24	5.77	HA
TYPE B	80.7	102	2.8	7.21	HA
TYPE B1	79.1	156	2.8	7.21	HA
TYPE B2	78.0	21	2.8	7.21	HA
TYPE C	93.7	52	2.8	7.21	HA
TYPE C1	89.1	78	2.8	7.21	HA
TYPE C2	96.5	50	2.8	7.21	HA
TYPE C3	92.0	78	2.8	7.21	HA



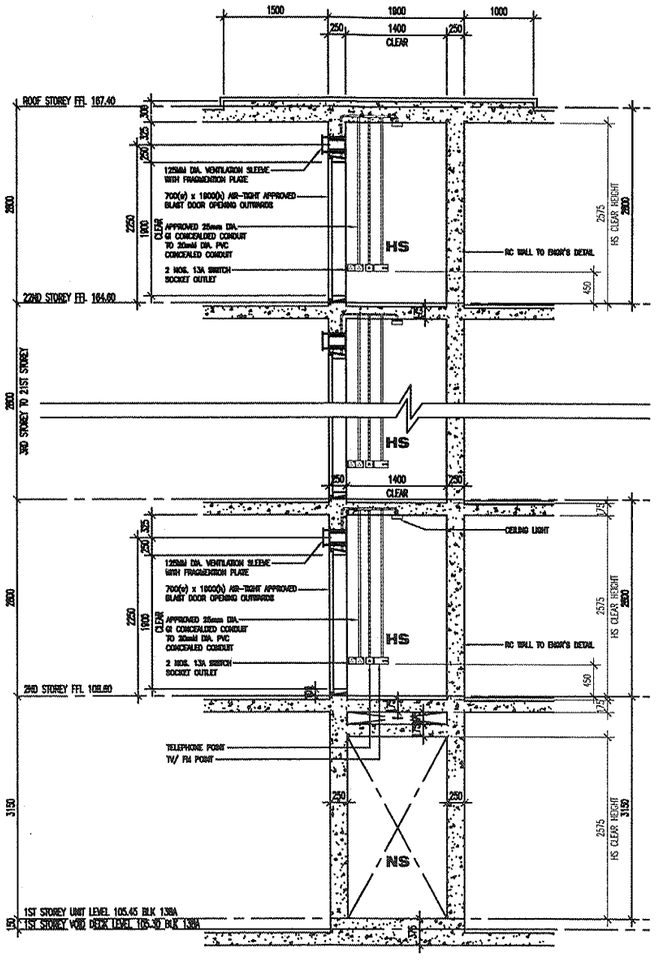
TYPICAL UNIT TYPE A HS PLAN

SCALE 1 : 50 m.



SECTION 1

SCALE 1 : 50 m.



SECTION 2

SCALE 1 : 50 m.

THIS FLOOR IS FULLY NATURALLY VENTILATED UNLESS OTHERWISE STATED

HOUSEHOLD SHELTER REQUIREMENTS

a) All walls & slab to be of reinforced concrete.

b) Flammable and brittle material like bricks, wood, any wood, any wood-by-products, abestos-cement, gypsum, all types of plaster, wall tiles, glass, ceramic wall tiles and material that emits toxic gases are prohibited.

c) The internal finish of the HS walls & ceiling shall be smooth with a cast concrete finish.

d) The surface finish of the walls & ceiling of the HS may be made using a finish skim coat not thicker than 2mm. Other finishes to be used shall be approved by the Authority.

e) No tiles or plaster shall be laid on walls & ceiling inside the HS.

f) All floor tiles/finishes are allowed if these are founded on a cement mortar screed base.

g) Skirting material on cement mortar wall base are allowed up to a maximum of 100 mm height above floor level.

h) Only services cable serving the HS are permitted in the HS walls & slabs.

NOTES :

1) Service cable piping 25mm dia.

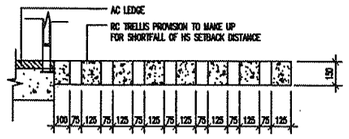
2) All Service cable piping is to be embedded between reinforcements.

3) All other Services that do not serve the HS do not penetrate into the HS walls or ceiling.

LEGEND

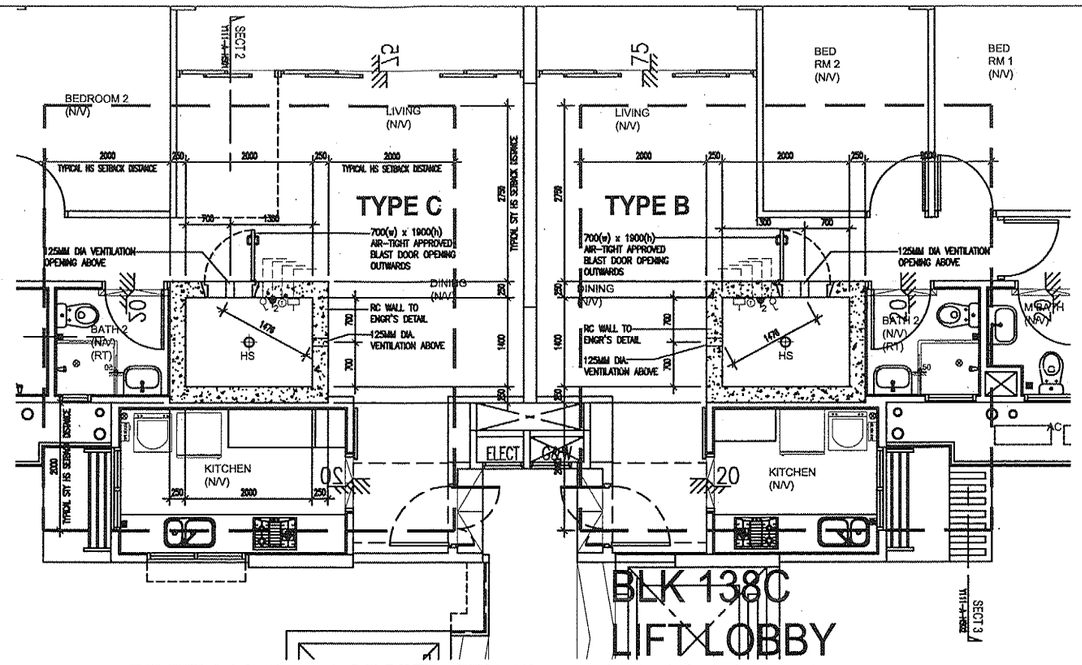
- 2 — Power Sockets (2 Power Points provided)
- T — Telephone outlets
- Radio and TV atenna outlet
- Lighting
- Light Switch
- BT : Block Terminal
- DB : Distribution Board

DATA OF HOUSEHOLD SHELTER					
DWELLING UNIT TYPE	GFA OF UNIT (M2)	NO OF HS	AREA OF HS (M2)	VOLUME OF HS (M3)	SHELTER TYPE
TYPE A	59.9	145	2.24	5.77	HA
TYPE B	80.7	102	2.8	7.21	HA
TYPE B1	79.1	156	2.8	7.21	HA
TYPE B2	78.0	21	2.8	7.21	HA
TYPE C	93.7	52	2.8	7.21	HA
TYPE C1	89.1	78	2.8	7.21	HA
TYPE C2	96.5	50	2.8	7.21	HA
TYPE C3	92.0	78	2.8	7.21	HA



DETAIL OF RC TRELLIS

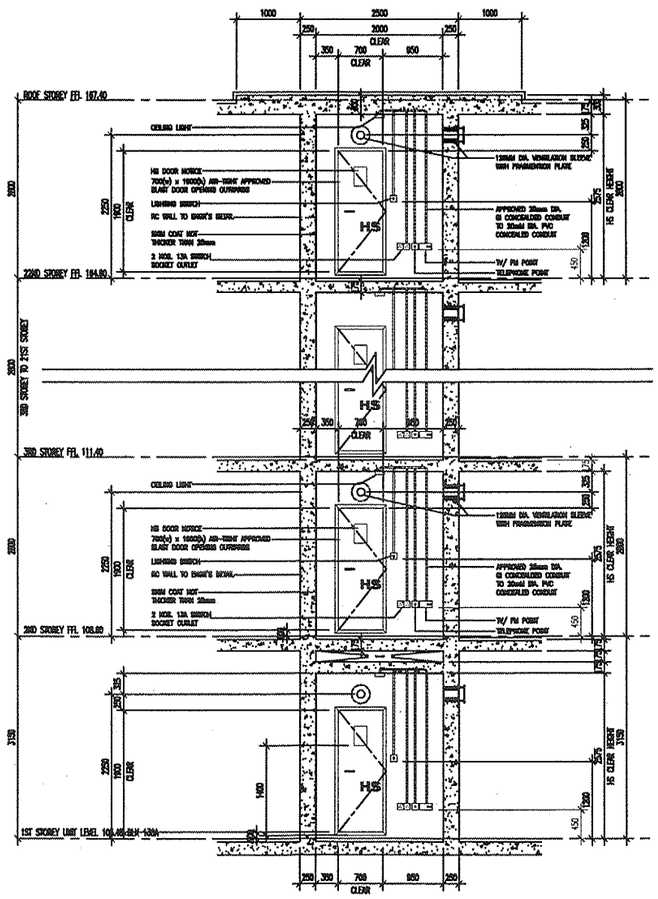
SCALE 1 : 20 m.



TYPICAL UNIT TYPE B HS PLAN
TYPICAL UNIT TYPE C HS PLAN (MIRROR)

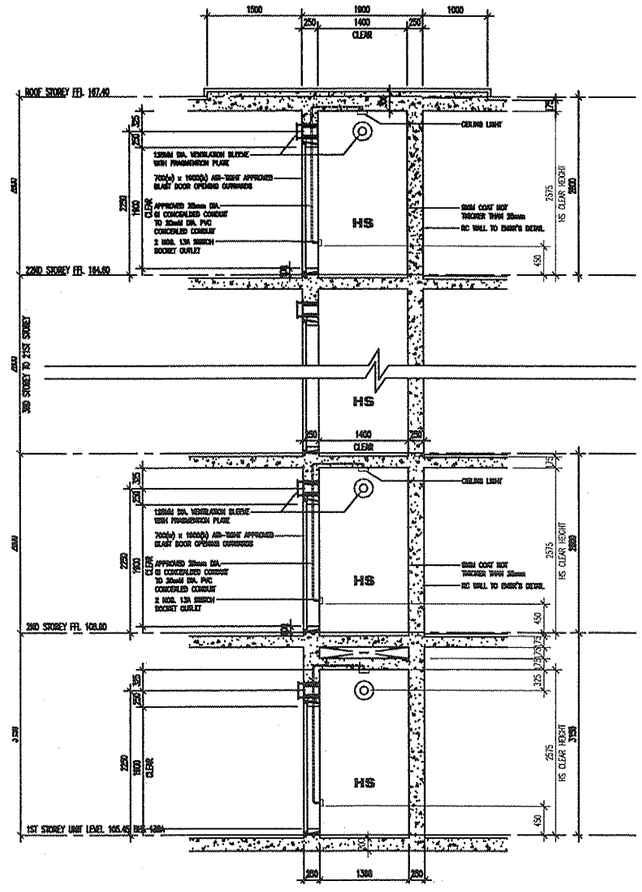
SCALE 1 : 50 m.

THIS FLOOR IS FULLY NATURALLY VENTILATED UNLESS OTHERWISE STATED



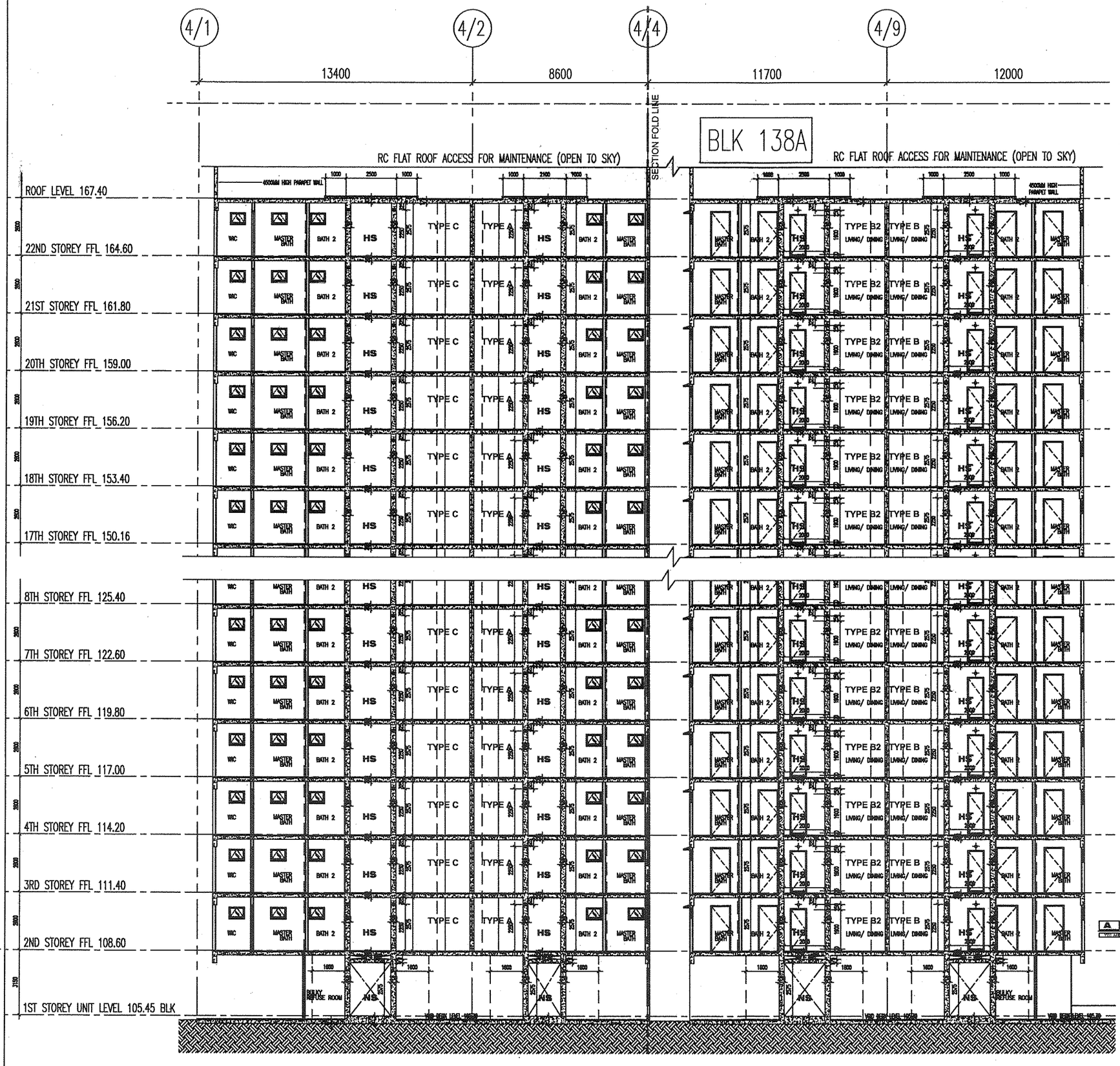
SECTION 1

SCALE 1 : 50 m.



SECTION 2

SCALE 1 : 50 m.

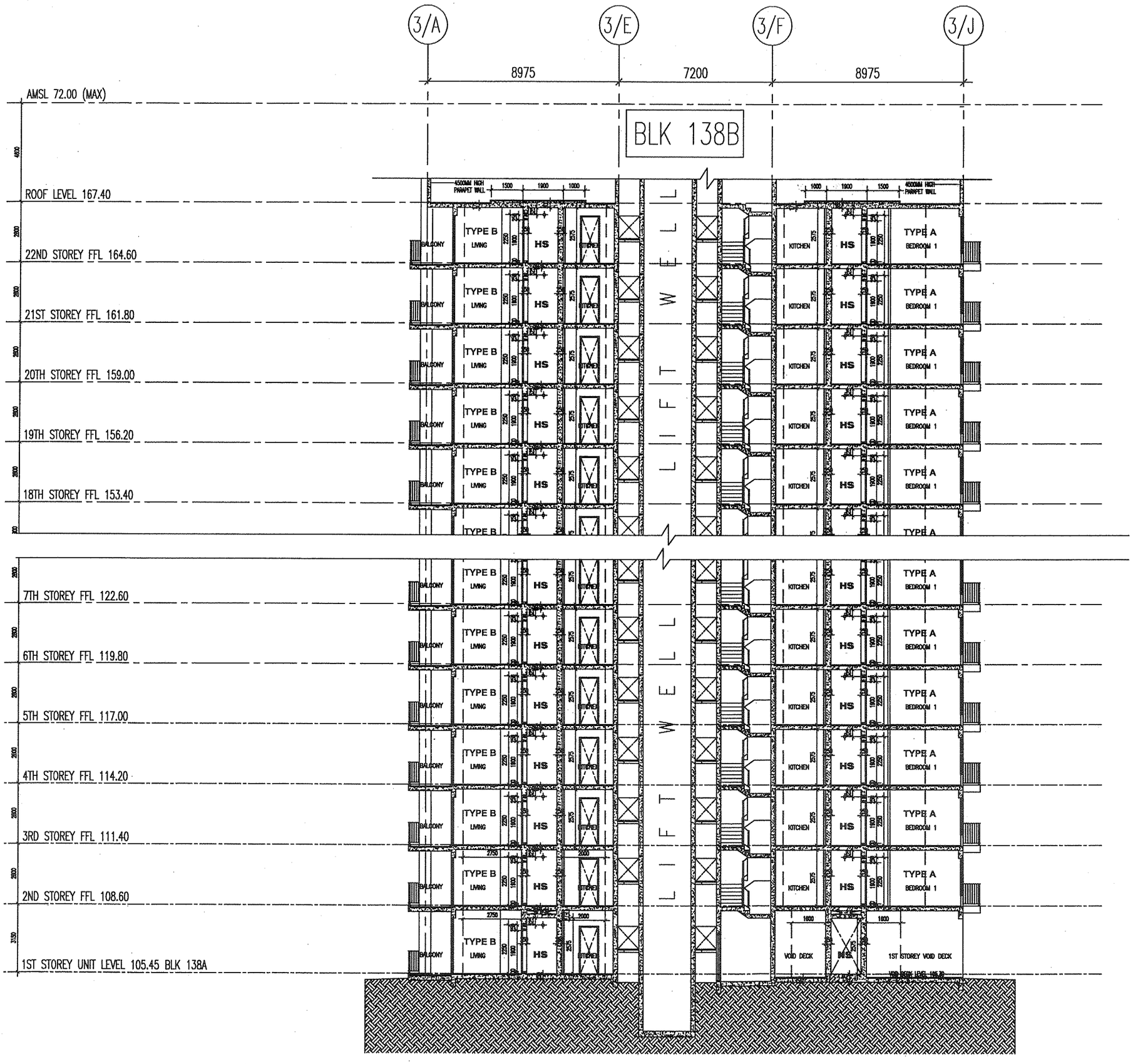


SECTION A-A

SCALE 1 : 100 m.

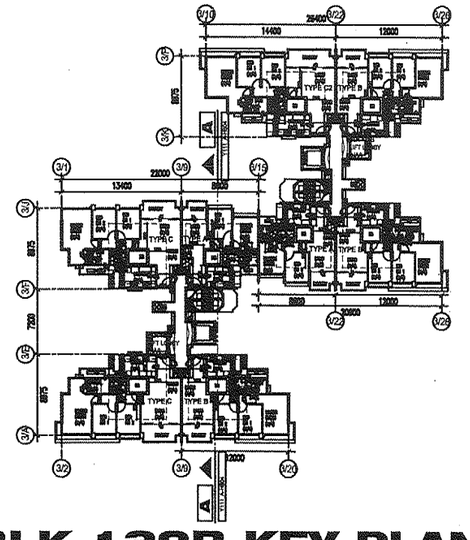
BLK 138A KEY PLAN

SCALE 1 : 400 m.



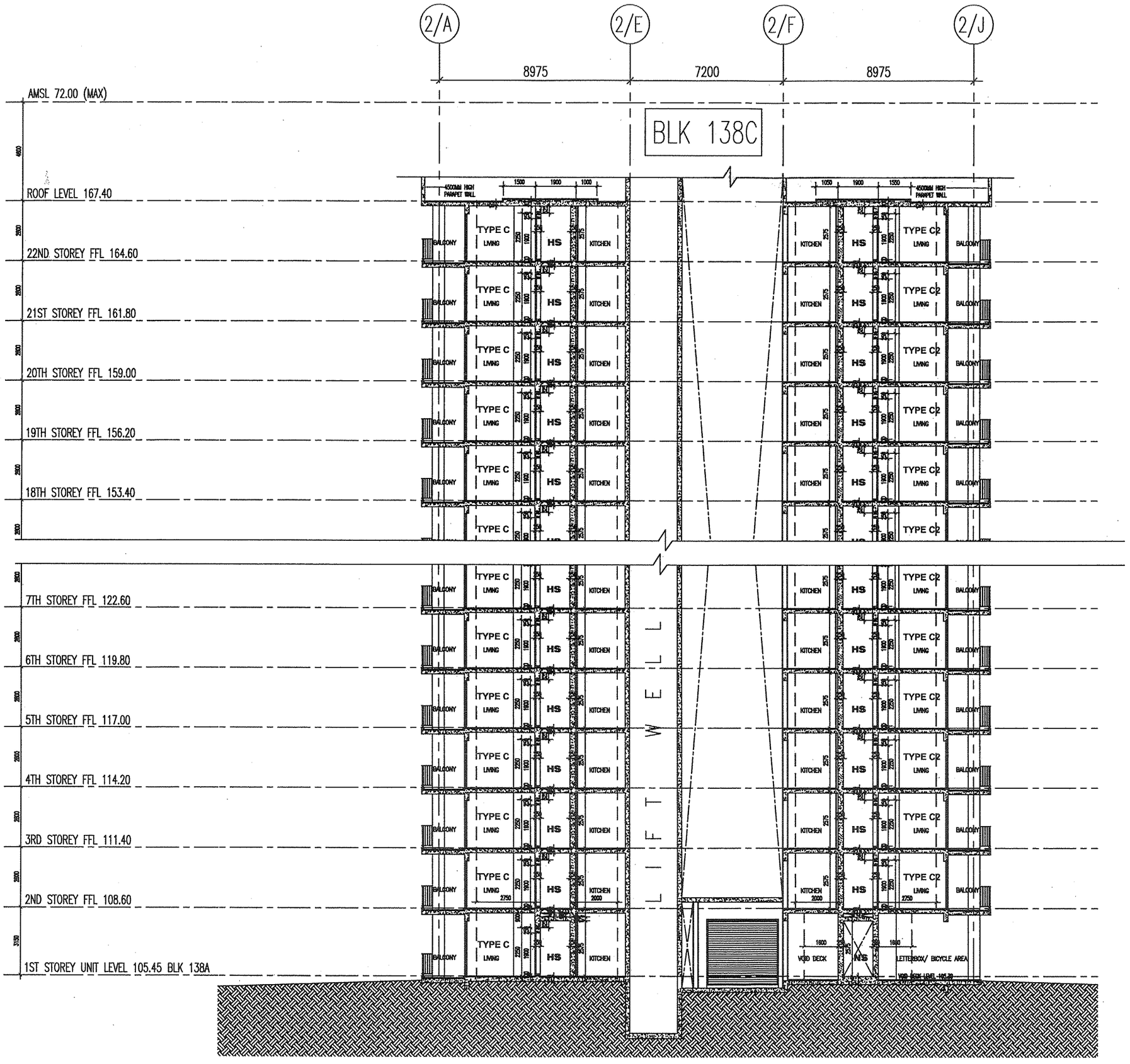
SECTION A-A

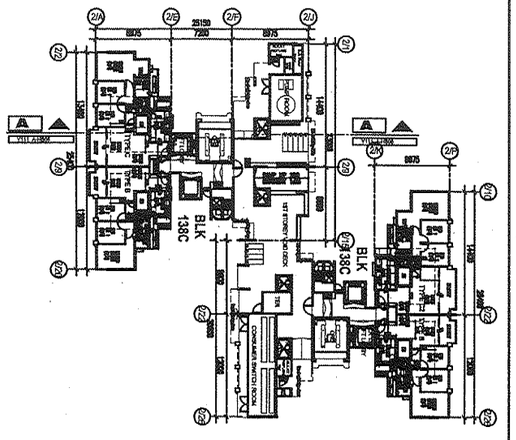
SCALE 1 : 100 m



BLK 138B KEY PLAN

SCALE 1 : 400 m



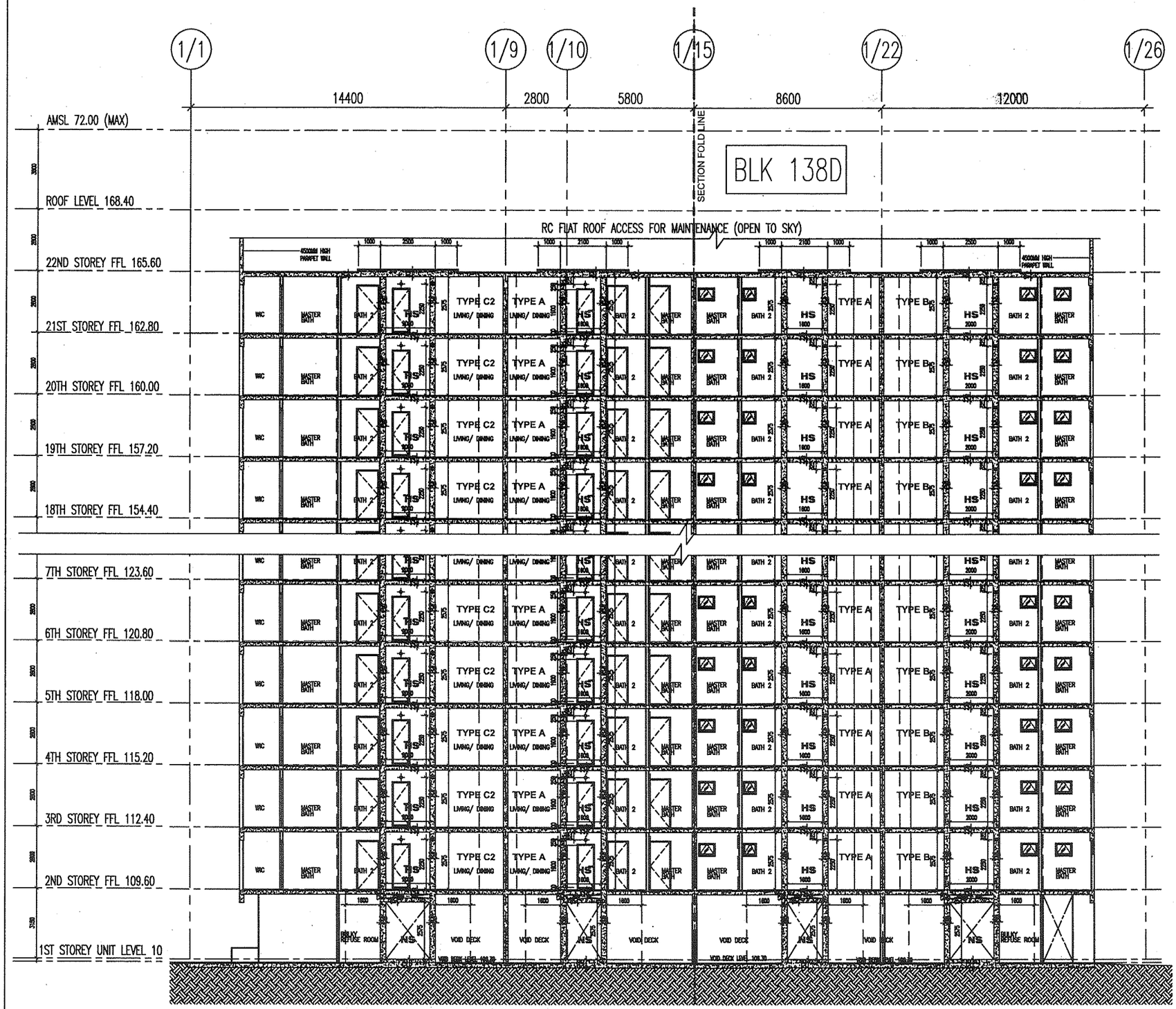


SECTION A-A

SCALE 1 : 100 m

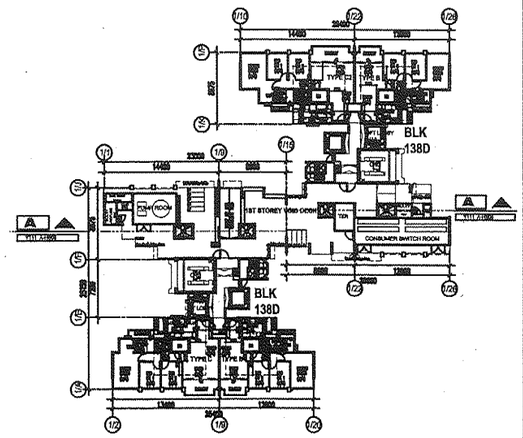
BLK 138C KEY PLAN

SCALE 1 : 400 m



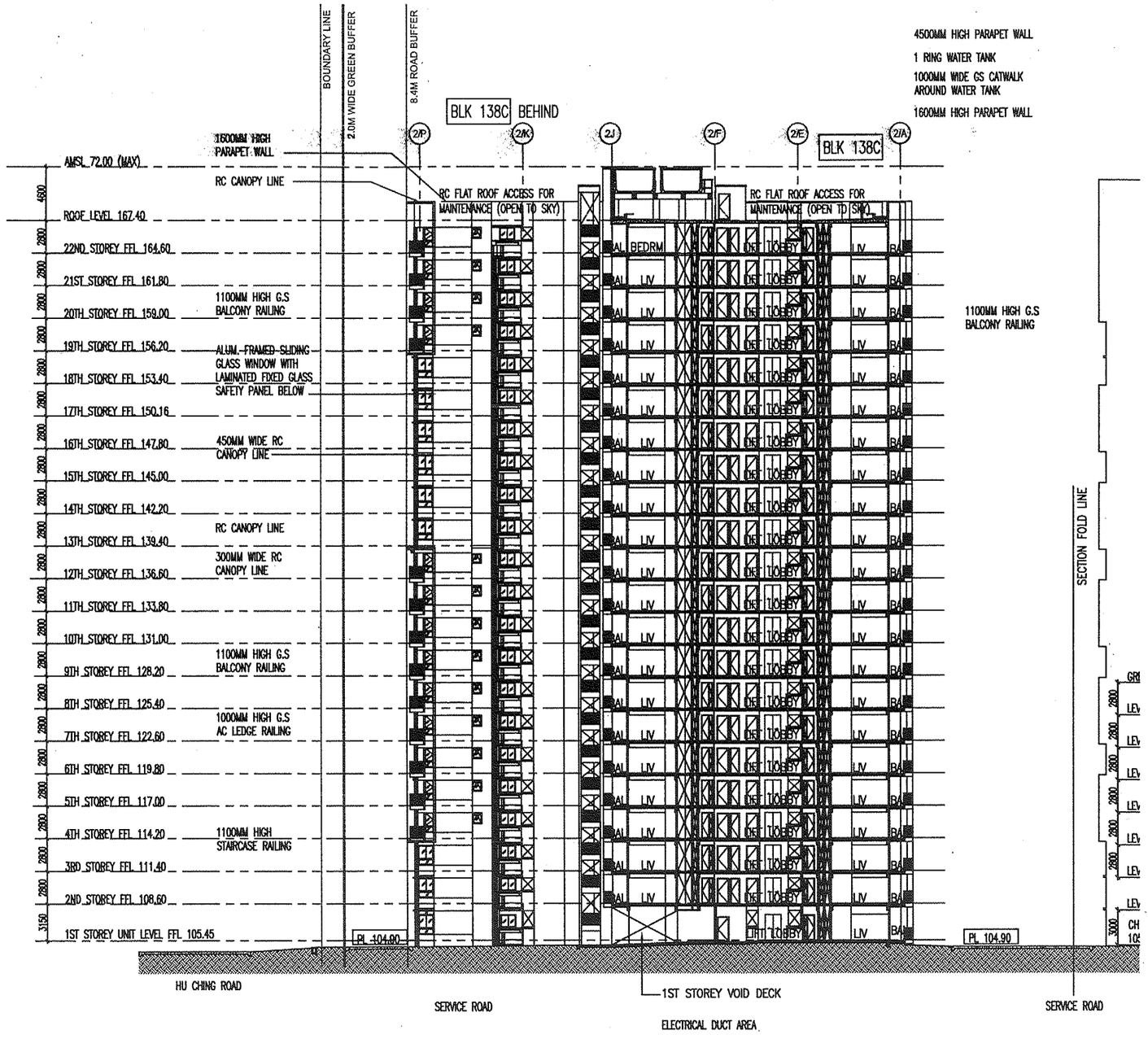
SECTION A-A

SCALE 1 : 100 m.



BLK 138D KEY PLAN

SCALE 1 : 400 m.



SECTION B-B

SCALE 1 : 400 m.