

(3) FIRE ALARM:
FIRE ALARM CALL POINT TO BE INSTALLED AT EACH FLOOR WITH
SO UNDERS CAPABLE OF BEING HEARD ALL THROUGHOUT THE
BUILDING

(4) FIRE EXTINGUISHERS:
ONE CARBON DIOXIDE (CO₂) TYPE EXTINGUISHER OF 4.5 KG
WITH ISI MARK, AND ONE EXTINGUISHER OF 5 KG DRY CHEMICAL
POWDER (DCP) TYPE EXTINGUISHER WITH ISI MARK TO
BE INSTALLED ON EACH FLOOR IN CASE OF COMMERCIAL BUILDING.
ONE CARBON DIOXIDE (CO₂) TYPE EXTINGUISHER OF 4.5 KG
WITH ISI MARK, OR TWO CARBON DIOXIDE (CO₂) TYPE
EXTINGUISHER OF 2 KG CAPACITY ON EACH FLOOR AND 5 KG
DRY CHEMICAL POWDER (DCP) WITH ISI MARK TYPE
EXTINGUISHER ON ALTERNATE FLOOR IN CASE OF RESIDENTIAL
BUILDINGS

IF THE BUILDING IS DIVIDED INTO TWO OR MORE PARTS THEN
EACH PART SHOULD HAVE THESE EXTINGUISHERS INSTALLED.

(5) STAIRCASE:
THE STAIRCASE HAS TO BE OPEN FROM AT LEAST ONE OR
TWO SIDES BUT IF THE STAIRCASE IS IN THE CENTRE CORE OF
THE BUILDING IT HAS TO BE PRESSURIZED TO PREVENT IT FROM
GETTING SMOKE LOGGED

THE RISER / DOWN - COMER SHOULD BE LOCATED IN THE
STAIRCASE OR CLOSE TO IT IN MAKE IT EASILY APPROACHABLE
IN CASE OF FIRE FROM THE FLOOR BELOW OR ABOVE.

(6) BASEMENT:
THE BASEMENT OF 200 SQ. METERS OR MORE SHOULD BE
PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM WITH AT
LEAST ONE SPRINKLE HEAD FOR ACTUAL CAR PARKING SPACE.
ADDITIONALLY BE PROTECTED BY A HYDRANT OUTLET AND
TWO 25 MM BORE HOSE- REEL HOSES WITH 8MM. BORE
NOZZLES AT EACH BASEMENT LEVEL.

(7) LIGHTNING ARRESTER:
A LIGHTNING ARRESTER SHOULD ALSO BE INSTALLED AND BE
PROPERLY EARTHED TO PREVENT DAMAGE TO THE BUILDING
WHEN THE LIGHTNING STRIKES.

(8) PHOTO LUMINESCENT (AUTO GLOW) SIGNAGES:
IF THE BUILDING FALLS IN A CUNTO AREA OR IF IT HAS AN
ENCLOSED STAIRCASE OR IS NOT WELL LIT UP ON THE INSIDE,
THEN ADEQUATE PHOTO LUMINESCENT (AUTO GLOW)
SIGNAGES SHOULD BE DISPLAYED AT EACH FLOOR/LANDING/
PATHWAY / DEAD-END AND ALONG ALL EXIT ROUTES LEADING
TO THE GROUND LEVEL. THE SIGNAGE SHOULD INDICATE FIRE
FIGHTING, FIRE SAFETY, FIRST-AID AND OTHER SAFETY
EQUIPMENT PRESENT ON THE RESPECTIVE FLOOR/LANDING/
PATHWAY / DEAD - END AND ALONG ALL EXIT ROUTES LEADING
TO THE GROUND LEVEL.

(9) ELECTRIC POWER SUPPLY TO THE ENTIRE FIRE- SAFETY
SYSTEM
ELECTRICITY SUPPLY TO THE FIRE PUMP, FIRE ALARM SYSTEM,
STAIRCASE PRESSURIZATION SYSTEM AND FIRE LIFT SHOULD BE
MADE AVAILABLE FROM THE MAIN ELECTRICAL SUPPLY. (I.E.
FROM ELECTRICAL POWER SUPPLY OF THE COMPANY) THIS IS
TO ENSURE AVAILABILITY OF POWER SUPPLY TO THE FIRE
PROTECTION & SAFETY SYSTEM EVEN AFTER THE MAIN
ELECTRICAL SUPPLY TO THE BUILDING IS SWITCHED OFF THE
TIME OF FIRE.

(10) IMPORTANT INSTRUCTIONS:
AFTER INSPECTION OF A LOW-RISE BUILDING BY THE FIRE
SERVICES AUTHORITY, IF THE FIRE OFFICER CONCERNED FEELS
THE NEED FOR ADDITIONAL FIRE PREVENTION/ PROTECTION/
VENTILATION SYSTEM REQUIRED OR EQUIPMENT (I.E. PASSIVE
SYSTEM/ SPRINKLER/ DRENCHER ETC.) AS PER FIRE LOAD/FIRE
RISK / PUBLIC GATHERING, POTENTIAL OCCUPANCY/ COMBINED
AREA, THOSE ADDITIONAL MEASURES/ EQUIPMENT HAVE TO BE
IMPLEMENTED/ INSTALLED.

(11) HYDRANT SYSTEM:
ON/OFF SWITCHES LOCATED NEAR THE HOSE REEL HOSE OR
HYDRANT OUTLET, AT EACH FLOOR FOR THE MAIN FIRE-PUMP AT
UNDERGROUND WATER TANK WITH A CAPACITY TO DISCHARGE
100 LITERS PER MINUTE AT 3 BAR PRESSURE AS MEASURED AT
THE TERRACE LEVEL SHOULD BE INSTALLED.
THE RISER FOR THE BUILDING EXCEEDING 10 METERS HEIGHT
SHOULD NOT BE OF LESS THAN 100 MM. INTERNAL DIAMETER.
THE RISER SHOULD BE CONNECTED TO THE BOTTOM OF THE
TERRACE TANK WITH A STOP VALVE AND A RIV TO ACT A DOWN-
COMER.

ONE RISER IS REQUIRED FOR EVERY 1000 SQ. METERS FLOOR
AREA AND IF THE BUILDING IS DIVIDED INTO TWO OR MORE PARTS
THEN EACH PART SHOULD HAVE A SEPARATE RISER WITH ALL THE
FITTINGS AT EACH FLOOR LEVEL.

EACH FLOOR SHOULD HAVE ONE HYDRANT OUTLET WITH A
COUPLING FOR ATTACHING A 63 MM. DIA. HOSE. 25 MM. BORE
HOSE- REEL HOSE WITH 8 MM. SHUT- OFF NOZZLE AT EACH
FLOOR LANDING. THE LENGTH OF THE HOSE SHOULD BE ENOUGH
TO REACH THE FARTHEST CORNER OF THE FLOOR. HOSE BOX WITH
15 METERS LONG 63 MM. DIA. HOSE AND 12.5 MM. BORE NOZZLE AT
ALTERNATE FLOORS, THE HOSE-REEL HOSE SHOULD BE COUPLED
TO THE RISER.

FIRE - SERVICE INLET SHOULD BE INSTALLED AT A POINT NEAR
THE ENTRY TO THE PREMISES WHERE A FIRE SERVICE VEHICLE CAN
EASILY APPROACH.

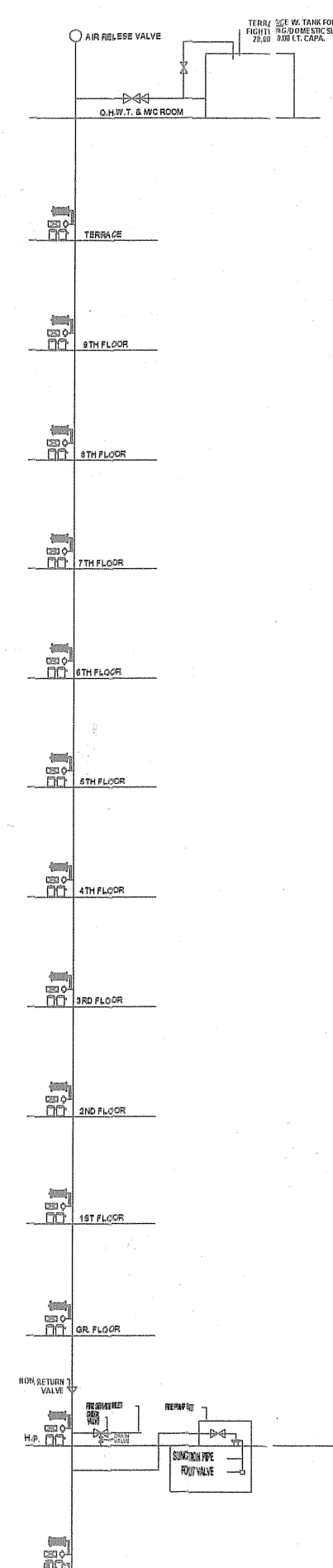
A PERMANENT HYDRANT POINT COMPRISING OF 63 MM DIA SIZE
2 NOS OF HYDRANT VALVES SHOULD BE INSTALLED AT THE
TERRACE LEVEL.

OVERHEAD TANK REFILLING BYPASS CONNECTION SHOULD BE
DONE AT THE TERRACE LEVEL.

THE OVERHEAD TANK SHALL BE OF CAPACITY OF NOT LESS
THAN 20,000 LITERS. THE UNDERGROUND TANK SHALL BE OF NOT
LESS THAN 1,00,000 LITERS.

(12) FIRE LIFT:
THE FIRE-LIFT AND ALL LIFTS SHOULD HAVE A PROVISION TO
GROUND TO AUTOMATICALLY IN CASE OF ELECTRICITY FAILURE.
EACH BUILDING SHOULD HAVE AT LEAST ONE LIFT AS FIRE LIFT
AND IF THE BUILDING IS DIVIDED INTO A MORE PARTS THEN EACH
PART SHOULD HAVE A FIRE-LIFT. LIFT-WELL SHOULD HAVE
BLOWERS TO PRESSURIZE THE LIFT-WELL SO CONNECTED THAT IT
WILL AUTOMATICALLY OPERATE WHEN ALARM CALL POINT IS
OPERATE, SO THAT IF PREVENTS THE LIFT WELL GETTING SMOKE
LOGGED.

FIRE HYDRANT SYSTEM PIPE MAIN:
SINGEL HEADED HYDRANT VALVE- 1
SLUCE VALVE- 2
TWO WAY SHAMES CONNECTION- 3
RISE OR DROP- 4
NON RETURN VALVE- 5
REDUCER- 6
FIRE HOUSE BOX- 7
HOSE REEL HOSE- 8
D.C.P. 6002- 9
HYDRANT VALVE- 10



NOTES:-

- ENGINEER IS FULLY RESPONSIBLE FOR LEAVING OPEN SPACE AND MARGIN.
- THE DEPTH AND POSITION OF EXISTING MUNICIPAL MAINHOLE IS VERIFIED ME ON SITE AND PRI MISSES
- IT IS CERTIFY THAT ACCORDING TO DRAFT GDR 2013 ALL REQUIREMENTS OF THE BUILDING ARE CHECKED AND NECESSARY ACTIONS ARE TAKEN.
- IT IS CERTIFY THAT ACCORDING TO THE CLAUSE NO. 4.5.3 OF THE DRAFT GDR, THE STRUCTURE OF THE BUILDING IS DESIGN AS PER THE NORMS OF THE INDIAN STANDARDS.
- DESIGN OF STAIRCASE AND RAILING IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.12 AND 23.1.4 AND 24.6 OF DRAFT G.D.C.R.
- PEDESTRIANS RAMP IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.5 OF DRAFT G.D.C.R.
- LIFT IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.2 AND 24.7 OF DRAFT G.D.C.R.
- WATER TANK IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.6 OF DRAFT G.D.C.R.
- SEPARATE LETTER BOX IS PROVIDED AT GROUND LEVEL FOR EACH UNIT.
- WATER TANK FOR FIRE SAFETY REQUIREMENT PROVIDED AS PER CHAPTER NO. 24 OF DRAFT G.D. C.R.
- ELECTRICAL INFRASTRUCTURE SHALL BE PROVIDED AS PER CLAUSE NO. 23.11
- DRINKING WATER FACILITY FOR DISABLED PERSONS IS PROVIDED AS PER THE CLAUSE NO. 23.6.3
- DRAINAGE FACILITY IS PROVIDED AS PER THE CLAUSE NO. 23.10
- SIGNAGES OF THE PARKING PLACE IS TO BE PROVIDED AS PER THE CLAUSE NO. 23.7 OF THE DRAFT G.D.C.R.
- ENTRANCE OF THE BUILDING IS PROVIDED AS PER THE CLAUSE NO. 23.1.7 OF DRAFT G.D.C.R.
- THE PAVING OF BUILDING UNIT/ PLOT AS PER THE PROVISION OF THE CLAUSE NO. 23.1.4 OF DRAFT GDCR.
- THE STRUCTURE OF THE BUILDING IS AS PER THE NORMS OF THE SPECIFIED IN THE INDIAN STANDARD AND TAKE NECESSARY ACTION FOR THE STRUCTURAL SAFETY DURING THE CONSTRUCTION.
- RAIN WATER STORAGE TANK AND RAIN WATER HARVESTING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 27.2 OF DRAFT GDCR 2013
- COMMUNITY BIN IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 27.3 OF DRAFT GDCR.
- GREY WATER RECYCLING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 27.4 OF DRAFT GDCR. THE PAINTING IS PROVIDED AS PER THE CLAUSE NO. 27.5 OF DRAFT GDCR.
- SOLAR WATER HEATING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 27.6 OF THE DRAFT GDCR.
- POLLUTION CONTROL SYSTEM IS PROVIDED AS PER THE CHAPTER NO. 28 OF DRAFT GDCR.
- FIRE SAFETY SYSTEM IS PROVIDED AS PER CHAPTER NO. 24 OF DRAFT GDCR 2013.
- MAINTENANCE AND UPGRADEMENT OF BUILDING IS AS PER CHAPTER NO. 29 OF DRAFT GDCR 2013.

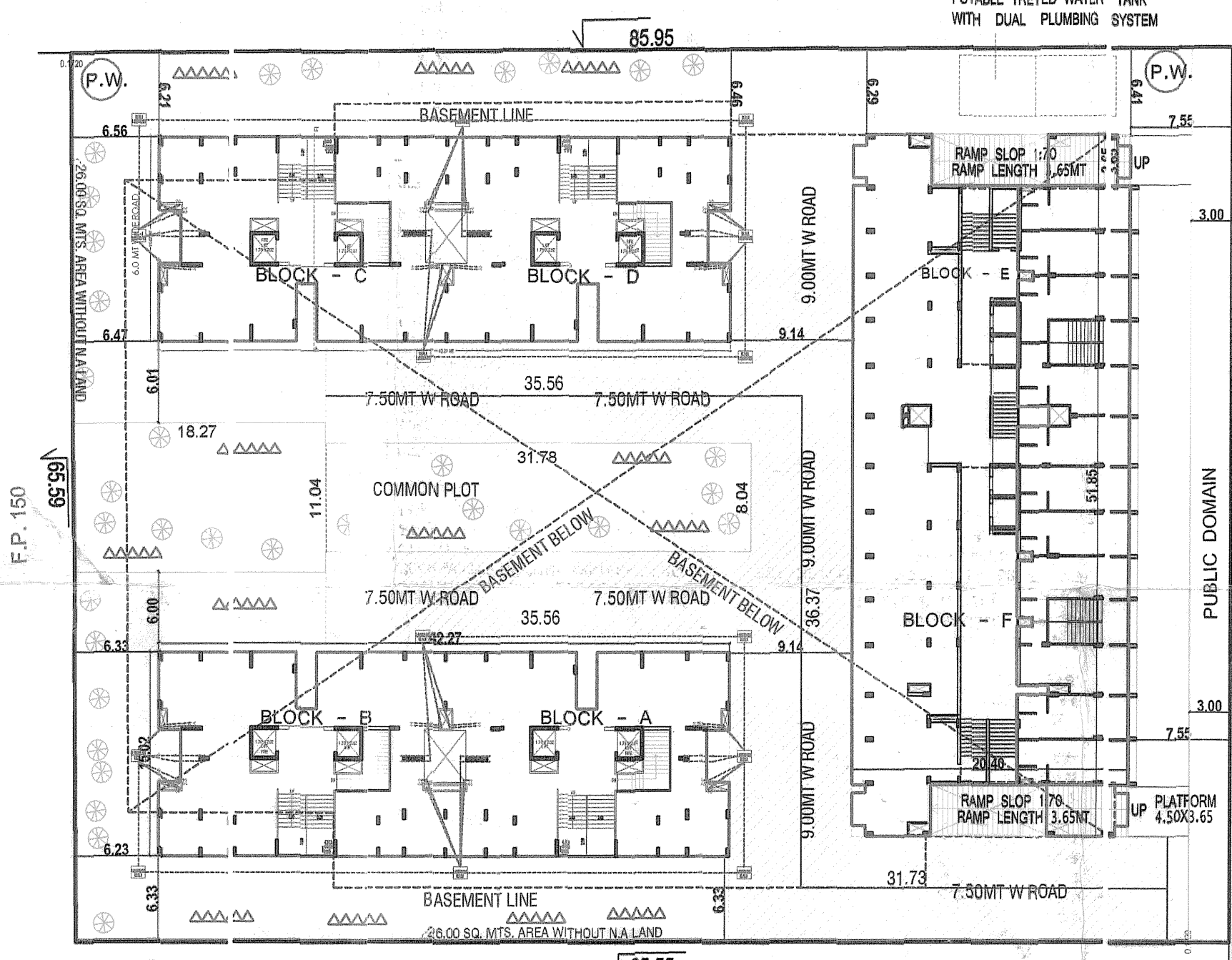
DRAINAGE ACOMODATION					
AS PER IS-2470					
MEDIUM ABSORPTION (FINE SAND, SANDY LAND)					
ABSORPTION LOADING PER DAY 68.50 LTRS/SQ.MTS.					
DETAILS OF SAPTIC TANK:					
NOS OF UNITS	NOS OF USERS	REQUIRED L B H	PROVIDED L B H	NOS.	
263	5 X 263 = 1315	0.90 X 1.50 X 1.00	0.90 X 1.50 X 1.00	263	
DETAILS OF SOAK TANK:					
NOS OF UNITS	NOS OF USERS	REQUIRED DIA DEPTH	PROVIDED DIA DEPTH	NOS.	
263	5 X 263 = 1315	2.00 X 6.15	2.00 X 6.15	263	

RESIDENTIAL					
TOTAL NO. OF UNIT 38					
MANI. CAPACITY OF CONTAINER 80 LTRS					
TOTAL UNITS. = 263 X 10 LTR = 2630 LTR/80 = 32.87					
REQ. REFUSED CONT. 33 NOS.					
PROVIDE 34 NOS. FOR RESI. OF 80 LTRS CAPACITY					

TREE PLANTATION CALC.					
200 SMT 3 TREE					
PLOT AREA :-	5672.00	S.MT			
5672.00 / 200 X 3	=	85.08	(TREE)		
SAY	86	TREE			
PROVIDED	86	TREE			

COMMON PLOT AREA CALCULATION					
31.78 X 8.04	=	255.51			
18.27 X 11.04	=	201.70			
TOTAL	=	457.21			

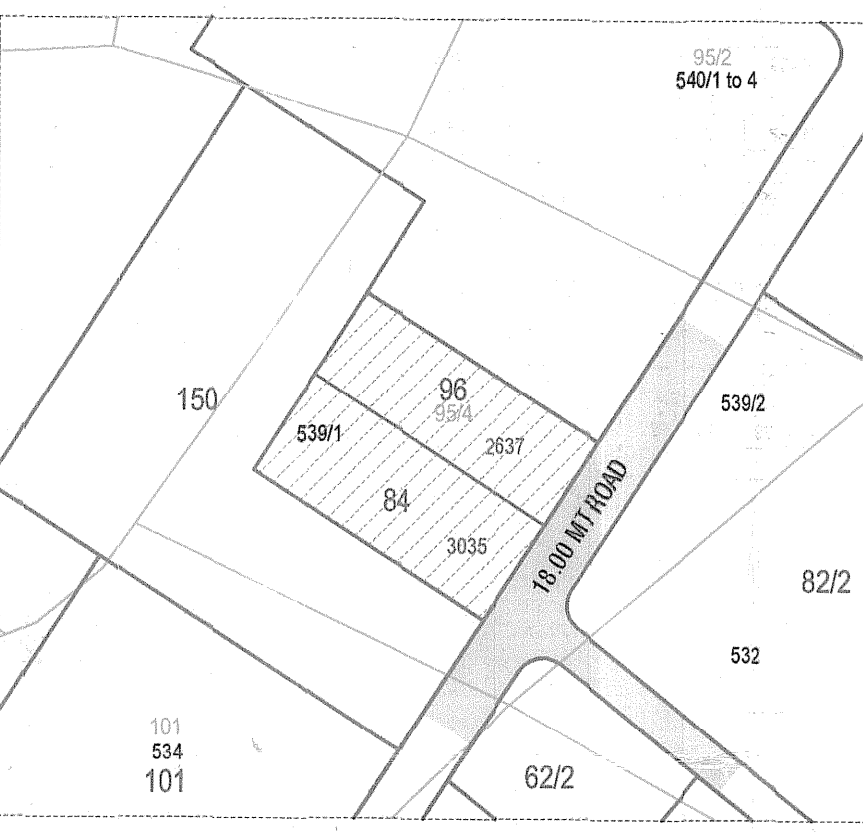
ADJ. OP. NO. 95/2
ADJ. SUR. NO. 540/1 to 4



LAY OUT PLAN
SCALE=1.0.CM=4.00 MT.

FLOOR	BLOCK-A&B	BLOCK-C&D	BLOCK-E&F	TOTAL
2ND BASEMENT	-----	-----	3502.82	3502.82
1ST BASEMENT	-----	-----	3551.10	3551.10
GR. FL.	609.20	609.20	1020.54	2130.77
1ST FL.	585.82	585.82	959.13	2130.77
2ND FL.	585.82	585.82	925.32	2096.96
3RD FL.	585.82	585.82	925.32	2096.96
4TH FL.	585.82	585.82	925.32	2096.96
5TH FL.	620.76	620.76	958.32	2199.84
6TH FL.	585.82	585.82	925.32	2096.96
7TH FL.	585.82	585.82	958.32	2129.96
8TH FL.	620.76	620.76	925.32	2166.84
9TH FL.	609.20	609.20	987.54	2205.94
10TH FL.	408.91	408.91	472.06	1289.88
STAIR CABIN	111.17	111.17	203.99	426.33
L.M.R. & O.H.W.T.	96.73	96.73	87.79	281.25
TOTAL	6591.65	6591.65	17338.21	30521.51

FLOOR	BLOCK-A&B	BLOCK-C&D	BLOCK-E&F	TOTAL
GR. FL.	453.69	453.69	704.82	1612.20
1ST FL.	453.69	453.69	635.19	1542.57
2ND FL.	453.69	453.69	635.19	1542.57
3RD FL.	453.69	453.69	635.19	1542.57
4TH FL.	453.69	453.69	635.19	1542.57
5TH FL.	453.69	453.69	635.19	1542.57
6TH FL.	453.69	453.69	635.19	1542.57
7TH FL.	453.69	453.69	635.19	1542.57
8TH FL.	453.69	453.69	635.19	1542.57
9TH FL.	453.69	453.69	635.19	1542.57
10TH FL.	291.15	291.15	265.47	847.77
TOTAL	4374.36	4374.36	6361.26	15109.98



KEY PLAN
SCALE=1.0.CM=20.00 MT.

AVAILABLE F.S.I.	0 TO 50	50 TO 66	66 TO 80
A + B	4883.21	291.15	
C + D	4883.21	291.15	
E + F	5664.77		
TOTAL	18251.19	582.30	

AVAILABLE F.S.I.	0 TO 50	50 TO 66	66 TO 80
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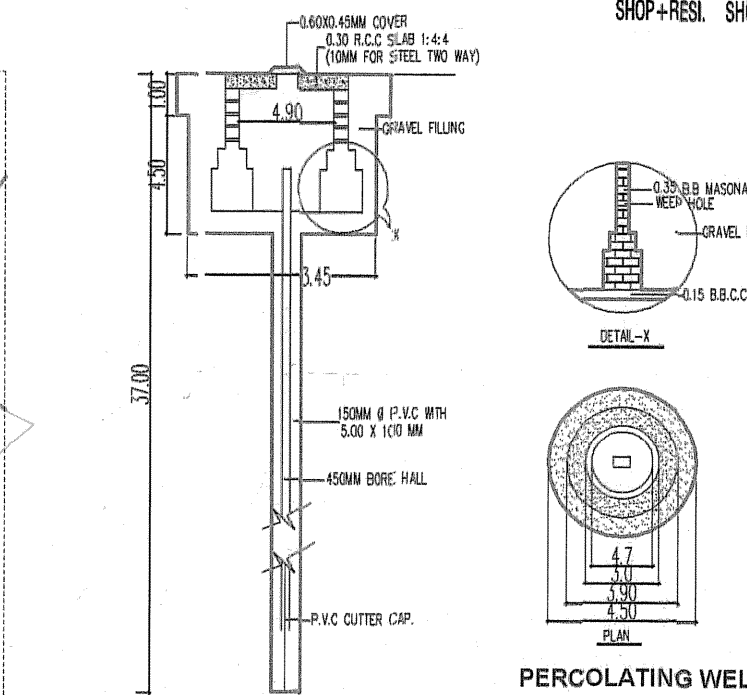
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FLOOR	BLOCK-A&B	BLOCK-C&D	BLOCK-E&F	TOTAL
GR. FL.	386.00	386.00	551.65	1323.65
1ST FL.	386.00	386.00	540.00	1312.00
2ND FL.	386.00	386.00	540.00	1312.00
3RD FL.	386.00	386.00	540.00	1312.00
4TH FL.	386.00	386.00	540.00	1312.00
5TH FL.	386.00	386.00	540.00	1312.00
6TH FL.	386.00	386.00	540.00	1312.00
7TH FL.	386.00	386.00	540.00	1312.00
8TH FL.	386.00	386.00	540.00	1312.00
9TH FL.	386.00	386.00	540.00	1312.00
10TH FL.	248.00	248.00	226.00	722.00
TOTAL	3722.00	3722.00	5361.29	12805.29

FLOOR	USE	BLOCK-A&B	BLOCK-C&D	BLOCK-E&F	TOTAL
BASEMENT	F'ARK	---	---	---	---
GR. FL.	SHOP + PARK.	---	---	11	11
1ST FL.	RESI.	08	08	11+5	11+21
2ND FL.	RESI.	08	08	10	26
3RD FL.	RESI.	08	08	10	26
4TH FL.	RESI.	08	08	10	26
5TH FL.	RESI.	08	08	10	26
6TH FL.	RESI.	08	08	10	26
7TH FL.	RESI.	08	08	10	26
8TH FL.	RESI.	08	08	10	26
9TH FL.	RESI.	08	08	10	26
10TH FL.	RESI.	04	04	04	12
TOTAL		76	76	22+89	22+241=263



UNIT	SIZE	USED F.S.I.	% OF USED F.S.I.	CHARGEABLE F.S.I.
UP TO 50				
50 TO 66	13821.19	13821.19/15109.98=0.91	0.91% X 4900.38 = 4459.94	
66 TO 80	582.30	582.30/15109.98 = 0.04	0.04% X 4900.38 = 190.01	

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A + B	4883.21	291.15	
C + D	4883.21	291.15	
E + F	5664.77		
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CASE NO.	
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