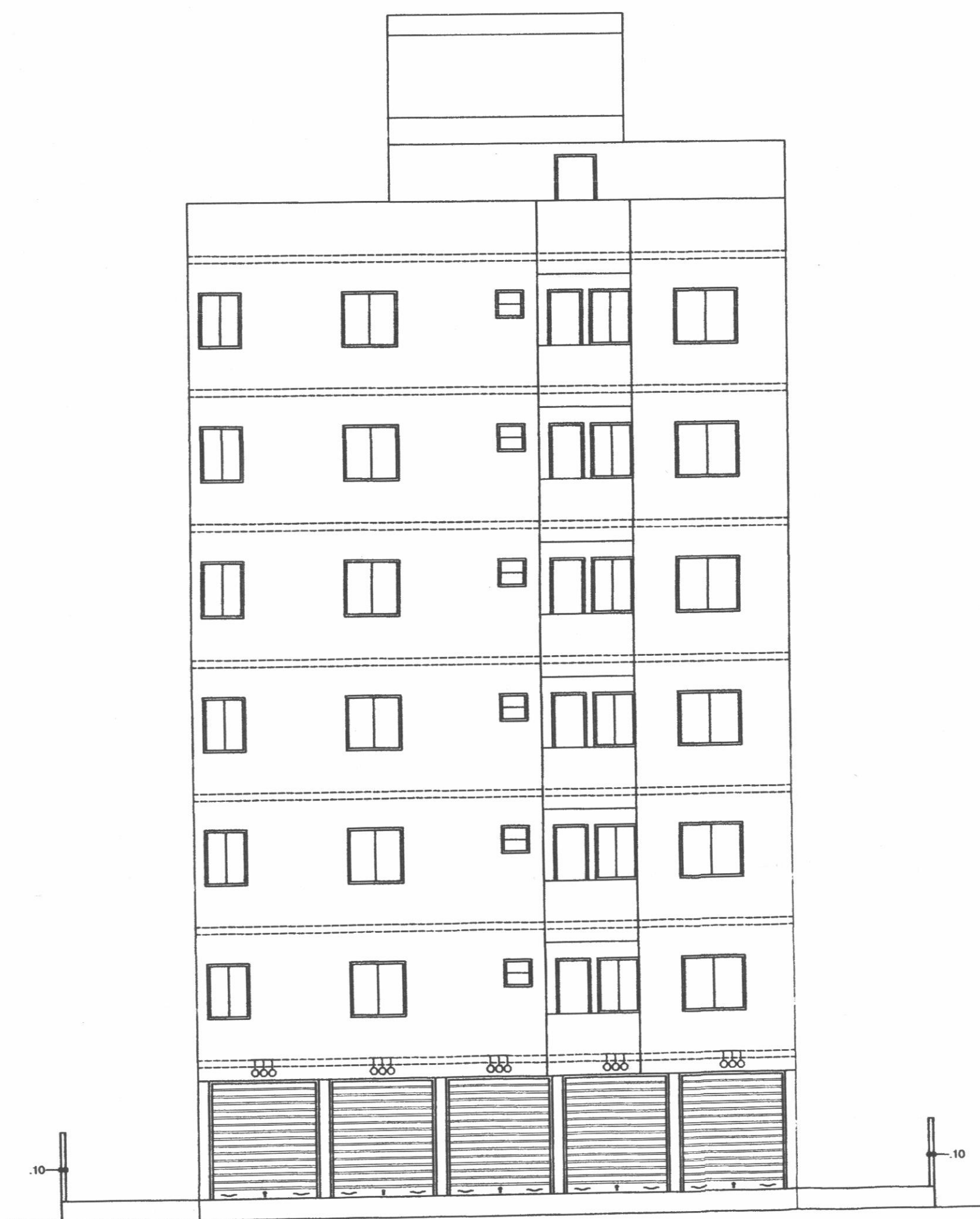
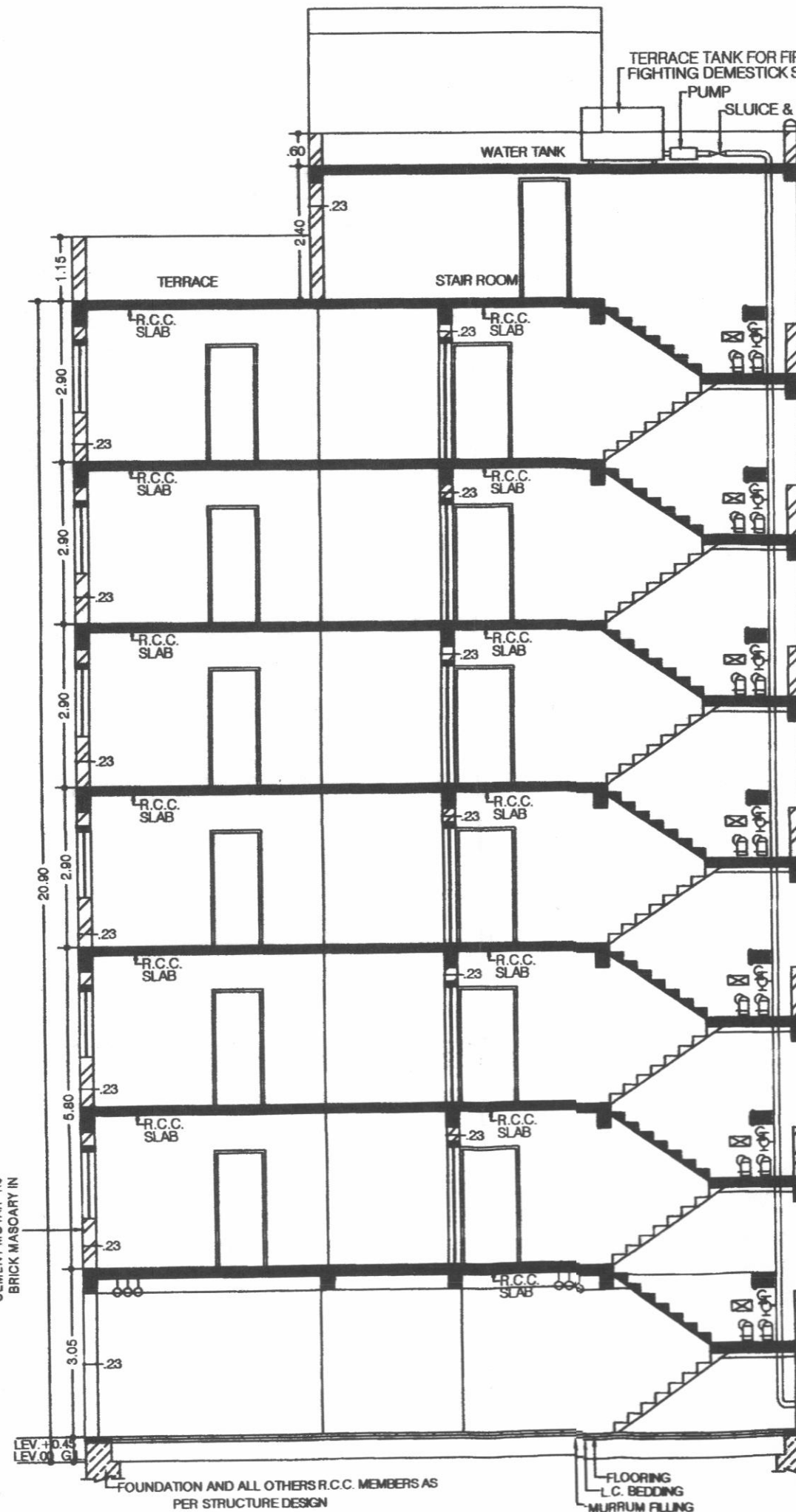
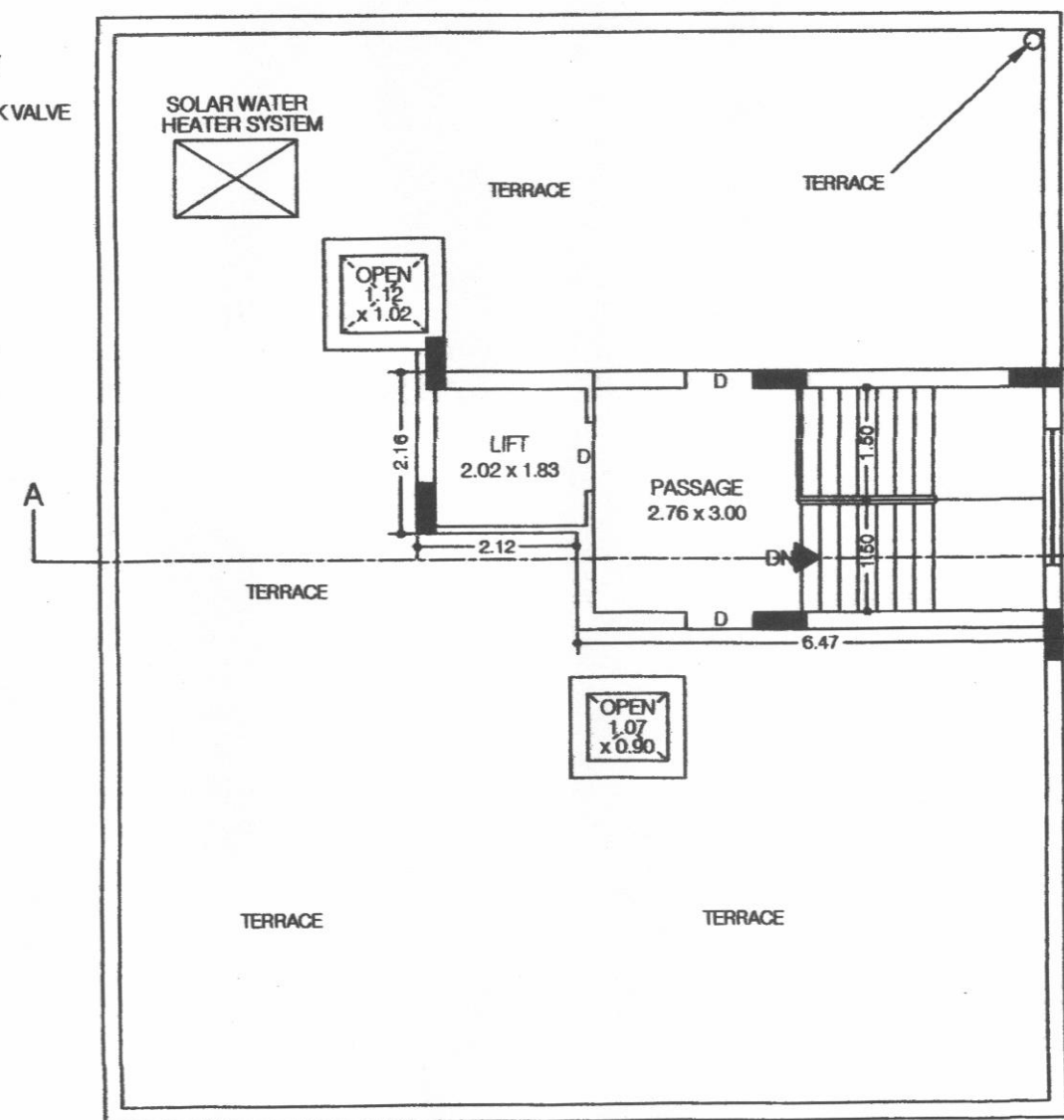




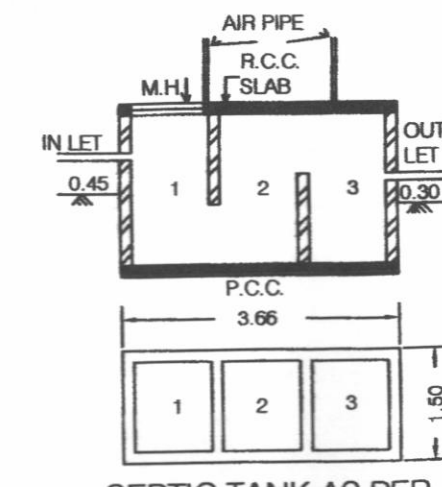
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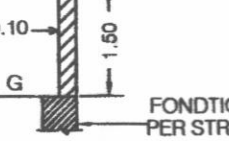
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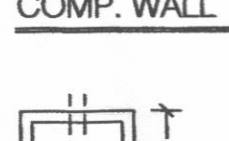
TERRACE PLAN
(SCALE: 1:100)



SEPTIC TANK AS PER
BUIL. UNITS & NBC



COMP. WALL



SOCK PIT

BUILTUP AREA CALCULATION:-

G.F. BUILTUP

(1).. 12.80 X 14.83 = 189.82... Sq. Mt.

Dec. Open = - 1.12 X 1.02 = 1.14... Sq. Mt.

TOTAL..... = 188.68... Sq. Mt.

F.F. to FIX.F. BUILTUP

(1).. 12.80 X 14.83 = 189.82... Sq. Mt.

Dec. Open = - 1.12 X 1.02 = 1.14... Sq. Mt.

- 1.07 X 0.91 = 0.97... Sq. Mt.

TOTAL..... = 187.71... Sq. Mt.

G.F. F.S.I. BUILTUP AREA

(1).. 7.49 X 5.73 = 42.92... Sq. Mt.

(2).. 5.31 X 6.83 = 36.27... Sq. Mt.

TOTAL..... = 79.19... Sq. Mt.

LESS IN F.S.I. BUILTUP AREA

(1).. 2.12 X 1.83 = 3.88... Sq. Mt.

(2).. 6.24 X 3.00 = 18.72... Sq. Mt.

TOTAL..... = 22.60... Sq. Mt.

PARKING AREA CALCULATION:-

RIQU. PARKING AREA(COMM.) = 79.19X 30%

= 23.76... Sq. Mt.

RIQU. PARKING AREA(RESI.) = 960.66X 20%

= 192.13... Sq. Mt.

TOTAL RIQU. PARKING AREA = 221.89... Sq. Mt.

(1).. 18.80 X 5.97 = 112.24... Sq. Mt.

(2).. 9.56 X 1.80 = 17.21... Sq. Mt.

(3).. 7.34 X 2.16 = 15.85... Sq. Mt.

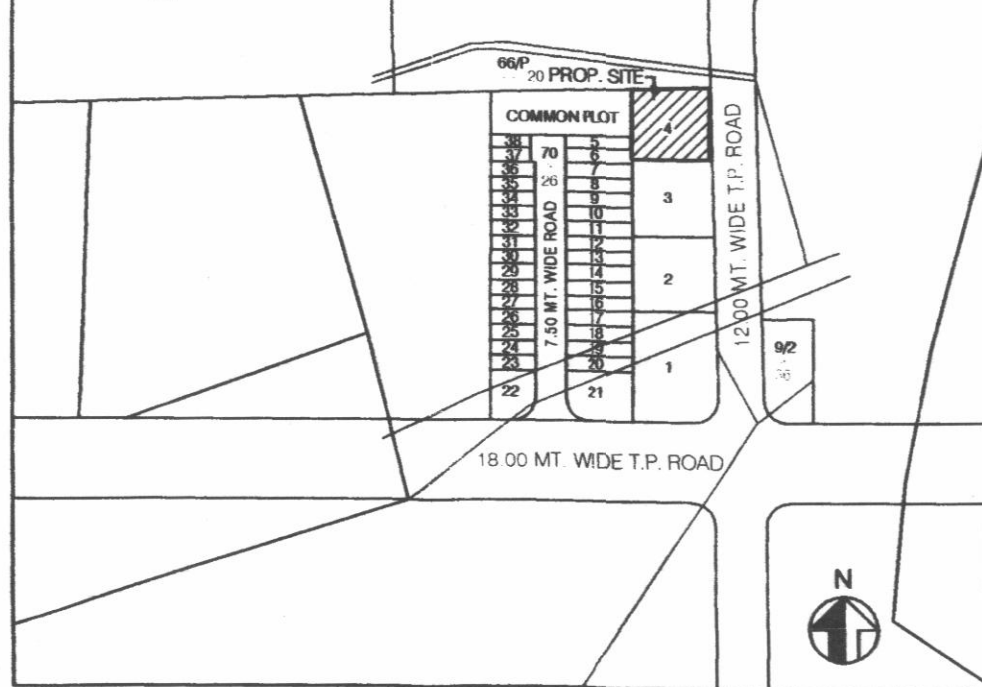
(4).. 9.56 X 2.17 = 20.74... Sq. Mt.

(5).. 3.00 X 8.73 = 26.19... Sq. Mt.

(6).. 12.80 X 3.00 = 38.40... Sq. Mt.

TOTAL PROV. PARKING = 230.63... Sq. Mt.

T.P.S. NO.: 15(VAVADI)
O.P. NO.: 26
F.P. NO.: 26



KEY PLAN
(SCALE: 1:200)

(1) 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 900 LITERS PER MINUTE AT 3 BAR PRESSURE AS MEASURED AT

THE TERRACE LEVEL SHOULD BE INSTALLED.

THE RISER FOR THE BUILDINGS EXCEEDING 18 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 RIVY 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 38 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 38 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 TERRACE WHERE A FIRE SERVICE VEHICLE CAN APPROACH EASILY. HYDRANT VALVES SHOULD BE INSTALLED AT THE TERRACE LEVEL.

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

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

(2) FIRE LIFT:-

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

(3) FIRE ALARM:-

FIRE ALARM CALL POINT TO BE INSTALLED AT EACH FLOOR WITH SOUNDERS CAPABLE OF BEING HEARD ALL THROUGHOUT THE BUILDING.

(4) FIRE EXTINGUISHERS:-

ONE CARBON DIOXIDE (CO2) TYPE EXTINGUISHER OF 4 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 BUILDINGS.

ONE CARBON DIOXIDE (CO2) TYPE EXTINGUISHER OF 4 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 TO 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 SPRINKLER HEAD FOR ACTUAL CAR PARKING SPACE.

ADDITIONALLY BE PROTECTED BY A HYDRANT OUTLET AND TWO 25 MM. BORE HOSE- REEL HOSES WITH 8 MM. BORE NOZZLES AT EACH BASEMENT.

(7) LIGHTENING ARRESTER:-

A LIGHTENING ARRESTER SHOULD ALSO BE INSTALLED AND BE PROPERLY EARTHED TO PREVENT DAMAGE TO THE BUILDING WHEN THE LIGHTENING STRIKES.

IF THE BUILDING FALLS IN A CONFINED AREA OR IF IT HAS AN ENCLOSED STAIRCASE OR IS NOT WELL LIFT 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 ABOVE BUILDING BY THE AUTHORITY, IF THE FIRE OFFICER CONCERNED FEELS THAT THE FIRE PROTECTION / PROTECTION VENTILATION SYSTEM NEEDS FIRE PREVENTION / SPRINKLER / DRENCHER ETC.) AS PER FIRE LOAD / FIRE RISK / PUBLIC GATHERING / POTENTIAL OCCUPANCY / CONFINED AREA, THOSE ADDITIONAL MEASURES / EQUIPMENT HAVE TO BE IMPLEMENTED / INSTALLED.

LEGEND FOR FIRE HYDR.

1.	—	FIRE HYDRANT SYSTEM PIPE MAIN
2.	—	SINGLE HEADED HYDRANT VALVE
3.	—	SLUICE VALVE
4.	—	TWO WAY GAMES CONNECTION
5.	—	RISE OR DROP
6.	—	NON RETURN VALVE
7.	—	REDUCER
8.	—	FIRE HOUSE BOX
9.	—	HOSE REEL HOSE
10.	—	D.C.P. 800 2
11.	—	HYDRANT VALVE
12.	—	SPRINKLER

NAME OF WORK:
PROP. COMM.+RESI. BUILDING PLAN FOR (DWELING-3+MERCANTILE-1)
SAI DEVELOPERS
PARTNERSHIP FIRMS PARTNERS
(1). SHRI. SAKHIYA JAGDISHBHAI RAVJIBHAI
(1). SHRI. SAKHIYA SHAILESHBHAI RAVJIBHAI
(1). SHRI. SAKHIYA BHAVESHBHAI TULSHIBHAI
TYPE OF CONT.: FRAME STRUCTURE
USE OF BUILDING:- COMMERCIAL + RESIDENCE
LOCATION:- Shivoham Heights, Unnati Residency. PLOT NO.: 4
REV. SR. NO.: 70 VILLAGE:-VAVADI WARD NO.: 12
T.P.S. NO.: 15(Vavadi) F.P. NO.: 26 O.P. NO.: 26

AREA TABLE:

TOTAL PLOT AREA = 397.67...Sq. Mt.

FLOOR	PROP. BUILT-UP AREA	DUCT IN F.S.I.	LESS IN F.S.I.	NET F.S.I. BUILT-UP
G.F.	188.68	—	109.49	79.19
F.F.	187.71	—	22.60	165.11
S.F.	187.71	—	22.60	165.11
T.F.	187.71	—	22.60	165.11
F.O.F.	187.71	—	22.60	165.11
F.F.	187.71	—	22.60	165.11
SIX	187.71	—	22.60	165.11
STAIR ROOM	26.70	—	26.70	—
TOTAL	1341.64	—	271.79	1069.85

F.S.I. USED = $\frac{1069.85}{397.67} = 2.69 < 2.70$

F.S.I. USED = 354.04...Sq. Mt.

REQUIRED PARKING FOR RESI.

COMM. = 79.19 X 30% = 23.76...Sq. Mt.

RESI. = 960.66X 20% = 192.13...Sq. Mt.

TOTAL RIQU. PARKING AREA = 221.89...Sq. Mt.

TOTAL PROVIDED PARKING = 230.63...Sq. Mt.

SCHEDULE OF OPENINGS:-

MD = 1.07 X 2.00

D1 = 0.75 X 2.00

W1 = 1.37 X 1.20

W2 = 0.90 X 2.20

WS = 0.90 X 0.91

V = 0.60 X 0.60

LEGEND:

PLOT BOUNDARY

PROPOSED WORK

DRAINAGE WORK

STAIR DETAIL RESIDENCE

WIDTH = 1.50

TRADE = 0.23 RISER = 0.18

OWNER:

SAI DEVELOPERS

SAI DEVELOPERS

ENGINEER:

Erandanvise

Er. Chandresh Mandavya

(Consulting Civil Engineer)

F-4, Kisan Complex, Opp. Fire Station, Mahesh Main Road, Rajkot.

RMC Lic. NO. E-276

Mobile: 9851109558

STRUCTURE ENGINEER:

BIPIN ADHIYA

Structural Engineer

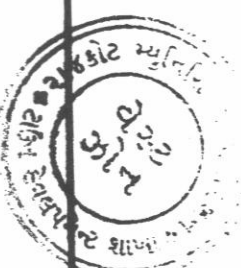
101 - Royal Corner,

RAJKOT.

R.M.C.L.No.77, RUDA L.No.61

AUTHORITY:

02/10/2022, 01/22/10/2022



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SAI DEVELOPERS

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