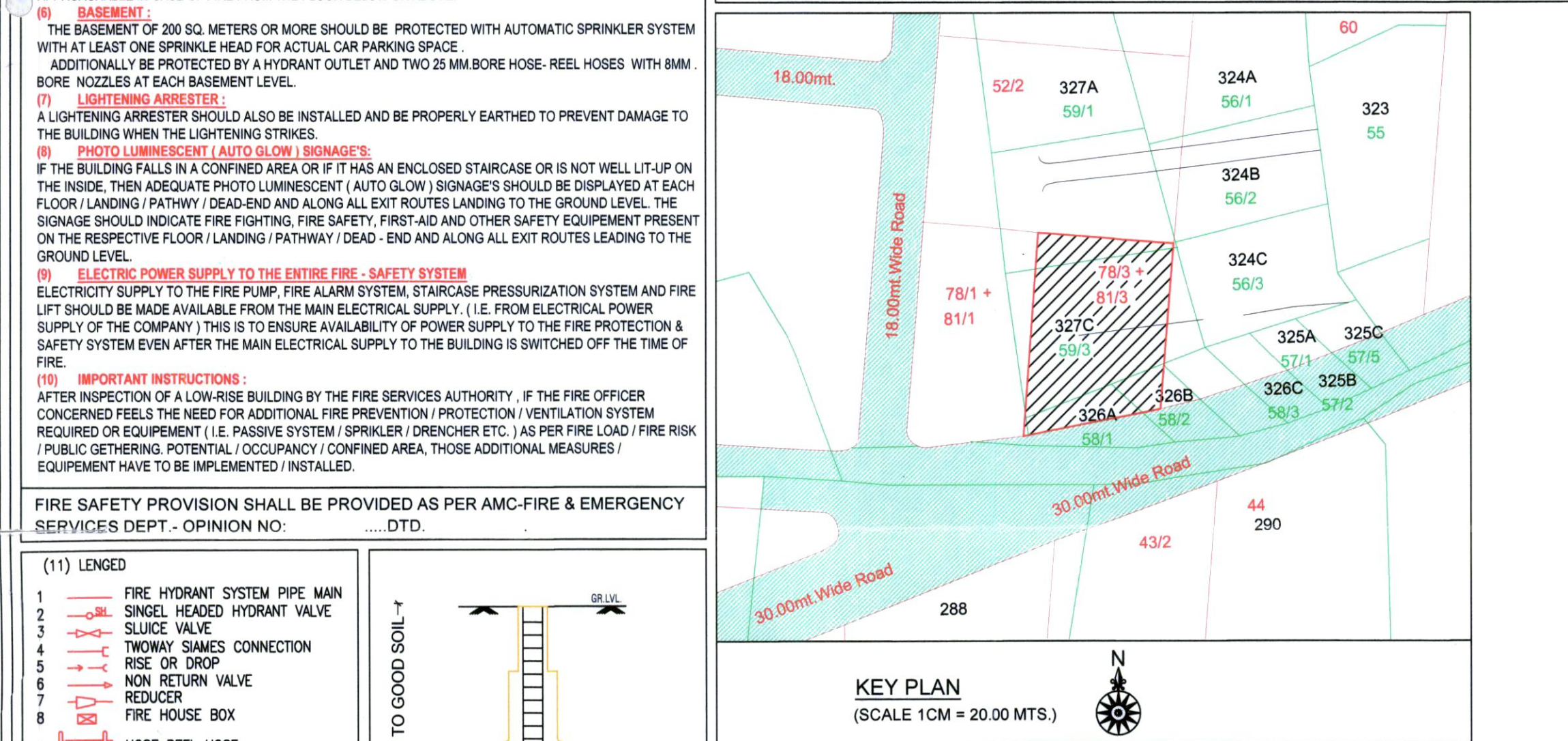


NOTES RELATED TO FIRE SAFETY.	
(1) HYDRANT SYSTEM	ON/OFF SWITCHES LOCATED NEAR THE HOSE REEL HOSE OR HYDRANT OUTLET, AT EACH FLOOR FOR THE MAIN FIRE PUMP AT UNDERGROUND WATER TANK WITH A CAPACITY TO DISCHARGE 900 LITERS PER MINUTE AT 3 BAR PRESSURE AS MEASURED AT THE TERRACE LEVEL, SHOULD BE INSTALLED.
(2) RISER	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 VALVE 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.
(3) HOSE	EACH FLOOR SHOULD HAVE ONE HYDRANT OUTLET WITH A COUPLING FOR ATTACHING A 83 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) 83 MM. DIA. HOSE AND 15.3 MM. BORE NOZZLE AT ALTERNATE FLOORS THE HOSE REEL HOSE SHOULD BE COUPLED TO THE RISER.
(4) FIRE SERVICE INLET	FIRE SERVICE INLET SHOULD BE INSTALLED AT A POINT NEAR THE ENTRY TO THE PREMISES WHERE A FIRE SERVICE VEHICLE CAN APPROACH EASILY.
(5) HYDRANT POINT	A PERMANENT HYDRANT POINT COMPRISING OF 63 MM DIA SIZE 2 NOS OF HYDRANT VALVES SHOULD BE INSTALLED AT THE TERRACE LEVEL.
(6) OVERHEAD TANK	OVERHEAD TANK 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.
(7) 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 A FIRE LIFT AND IF THE BUILDING IS DIVIDED INTO TWO OR MORE PARTS THEN EACH PART SHOULD HAVE A FIRE 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.
(8) FIRE ALARM	FIRE ALARM CALL POINT TO BE INSTALLED AT EACH FLOOR WITH SOUNDERS CAPABLE OF BEING HEARD ALL THROUGHOUT THE BUILDING.
(9) FIRE EXTINGUISHERS	ONE CARBON DIOXIDE (CO ₂) 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.
(10) FIRE EXTINGUISHERS	ONE CARBON DIOXIDE (CO ₂) TYPE EXTINGUISHER OF 4.5 KG. WITH ISI MARK, OR TWO CARBON DIOXIDE (CO ₂) TYPE EXTINGUISHER OF 4.5 KG. CAPACITY ON EACH FLOOR WITH A FIRE 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.
(11) STAIRCASE	THE STAIRCASE HAS TO BE OPEN FROM AT LEAST ONE OR TWO SIDES BUT IF THE STAIRCASE IS IN THE CENTRE CORE OF 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.
(12) 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 HOSE WITH 8MM. BORE NOZZLES AT EACH BASEMENT LEVEL.
(13) LIGHTNING ARRESTER	A LIGHTNING ARRESTER SHOULD ALSO BE INSTALLED AND BE PROPERLY EARTHED TO PREVENT DAMAGE TO THE BUILDING WHEN THE LIGHTNING STRIKES.
(14) PHOTO LUMINESCENT (AUTO GLOW) SIGNAGE	IF THE BUILDING FALLS IN A CONFINED AREA OR IF IT HAS AN ENCLOSED STAIRCASE OR IS NOT WELL LIT UP ON THE INSIDE, THEN ADEQUATE PHOTO LUMINESCENT (AUTO GLOW) SIGNAGE 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.
(15) 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.
(16) 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 / CONFINED AREA, THOSE ADDITIONAL MEASURES / EQUIPMENT HAVE TO BE IMPLEMENTED / INSTALLED.
FIRE SAFETY PROVISION SHALL BE PROVIDED AS PER AMC-FIRE & EMERGENCY SERVICES DEPT. - OPINION NO. DTD.	



PERCOLATING WELL REQD = 3783.00/4000=0.95 SAY 1 NOS.	
PERCOLATING WELL PROVIDED=1 NOS.	
TREE PLANTATION REQD.	
PLOT AREA = 3783.00 SQ.MT.	
TREE PLANTATION REQD. UP TO 500.00 SQ.MT. = 12 NOS.	
3783.00 - 500.00 = 3283.00 X5/200 = 82.08 SAY = 83 NOS.	
TOTAL TREE PLANTATION REQD. = 95 NOS.	
TREE PLANTATION PROVIDED = 95 NOS.	
COMMUNITY BIN CALCULATION FOR RESI.	
COMMUNITY BIN REQUIRED 10 LT. CAPACITY PER 1 UNIT	
TOTAL 164 UNIT=164 NOS X10 LT=1640 LT. CAP. COMMUNITY BIN REQD.	
COMMUNITY BIN PROVIDED 80 LT. X 21 NOS. = 1680 LT. CAPACITY.	
FOR NON RESI. USE:-	
FLOOR AREA (TOTAL) = 1337.34 SQ. MT.	
100 SQ. MTS. FL. AREA / 20 LTS.	
1337.34/5 = 267.47 SAY 268 LTS.	
PROVI. 80 LTS. (80 X 4) = 320 LT. COMM. BIN	
COMMON PLOT AREA CAL.	
18.33X10.06 = 184.40	
10.31X13.56 = 139.80	
172X8.02X13.56 = 54.38	
= 378.58 SQ. MT.	

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DRAINAGE SECTION

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