

SHINE BUILDCON PVT. LTD.

Regd. Office: H-334, Ground Floor, New Rajinder Nagar, New Delhi-110060
CIN: U45201DL2004PTC131675, Telephone No.: 011-28744111/12
Email Id: shinebuildcon@rediffmail.com

SHINE/NOCF/2017/01

Date: 31st March, 2017

The Sr. Fire Station Officer,
Fire Station , Sector -29
Municipal Corporation Gurgaon


Subject: Objection Regarding Approval of fire fighting Scheme from Fire Safety point of view of Commercial Colony meas. 2.893 acres in Sector -70 ,Gurgaon of M/s Shine Buildcon Pvt. Ltd.

Reference: Your letter No. MCG/FS/SFSO/2016/3239 dated 21.12.16

Dear Sir,

This is in reference to the captioned subject. Please be informed that we have submitted clarification towards objection raised in your letter No. MCG/FS/SFSO/2016/3239 dated 21.12.16

You are therefore requested to issue Fire NOC at the earliest.


Yours truly,

For Shine Buildcon Pvt. Ltd.

Vikas Bajaj
(Authorized Signatory)

जीवा दमकल केंद्र अधिकारी,
दमकल केंद्र नंबर-29
नगर निगम गुरुगांव।

M/s Shine Buildcon Pvt. Ltd.,
Vill- Badshahpur, Sector- 70,
Gurgaon.

Dated- 21/12/16

No.-MCG/FS/SFSO/2016/ 3289

Subject-

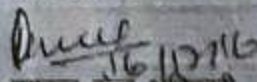
Objection Regarding Approval of fire fighting Scheme from Fire safety point of view of the Commercial Colony meas. 2.893 acres in Sector- 70, Gurgaon of M/s Shine Buildcon Pvt. Ltd.

उपरोक्त विषय पर सी.एफ.सी. एम.सी.जी. से प्राप्त फाईल नं०- 201610054992 दिनांक 05.10.2016 की सन्दर्भ में।

विषयाधीन कार्य हेतु प्राप्त फाईल का दमकल केंद्र अधिकारियों की टीम द्वारा अवलोकन किया गया। अवलोकन उपरान्त इस फाईल में बनी पावर प्लान में निम्नलिखित कथित त्रुटियाँ पाई गई हैं:-

- 1- Questionnaire sr. nos. 8,11,13,15,16,18,19,22,24,26,31,33,35,39,43,44, 48,53 are not filled as per NBC norms. In questionnaire, many columns of as per NBC are stand blank/not filled.
- 2- Sign. of Fire, Ventilation, Electrical Consultants and Architect not affixed in questionnaire and drawing.
- 3- The applicant has applied for issue of Fire NOC but file relates to issuance of fire scheme, Fresh request letter to be submitted for issuance of fire scheme.
- 4- Authority letter for submission of file and Authorisation letter of signing authority not attached in file.
- 5- DBR of Fire, Ventilation and Fire alarm and Detection System not attached.
- 6- Fire Ventilation and Electrical Consultant Certificate not attached.
- 7- Classification of building not shown in fire scheme on which fire system has been designed.
- 8- As per BR-III, Approval is given for revise building plan but in questionnaire & scheme, it is not mentioned anywhere about earlier approval of fire scheme.
- 9- UG fire tank capacity not as per norms, it shall be increased.
- 10- Why fire control room shown in B-1, Which is not allowed.
- 11- Diesel pump capacity not as per norms, it shall be increased.
- 12- Automatic fire system for Transformer, HT & LT panel not shown.
- 13- In site plan- Fire tender movement road, Width of Main Entry/Exit, Distance between yard hydrant not shown.
- 14- Detail of Refuge area with calculation not shown in scheme, The area shall also be marked on relevant drawing with direct access of staircase.
- 15- Separate drawing required for Ventilation and Pressurization system for basement area.

- 16-Distance between sprinklers, detectors and curtain nozzles not shown.
 - 17-Fire door in Stairs, Lift lobby and Electrical shaft/room not marked.
 - 18-Why deluge valve not shown in curtain line.
 - 19-Mechanical Ventilation, Pressurization, Pump Head, Hydraulic head loss calculation of sprinklers, Hydrants and Curtain not attached.
 - 20-In drawing Cinema hall Audi 1,2,3 shown but in questionnaire not matched about cinema area, occupancy. Why.
 - 21-Separate drawing required for Cinema Audi's, clearly showing Travel distance, Spacing between sitting area, Width of Entry/Exit etc.
 - 22-Provision of hose reel/FHC in all Audi's etc not shown and provision of fire system are also not sufficient as per NBC norms.
 - 23-Why smoke Detectors shown in service apartment room with pantry area, clarify.
 - 24-Why mechanical parking area shown in basement area, clarification required about no. of cars and fire system etc also required.
 - 25-Fire alarm & Detection system in Audi area not shown.
 - 26-Elevation Section Drawing not attached.
 - 27-Upper floor mechanical ventilation system also not shown.
 - 28-Width of staircase of Assembly building in cinema area not less than 2000 mm.
 - 29-Detail regarding non slippery staircase not given.
 - 30-Detail of false ceiling gap & fire system above ceiling not clear shown.
 - 31-A Certificate shall be given on every drawing that these drawing are as per original drawing passed by Town and Country Planning vide memo no and date.
- अतः आपको लिखा जाता है कि आप फायर स्कीम को एन.बी.सी. 2005 के अनुसार तैयार करवाएँ एवं कमराख्या अनुसार जवाब पुनः सी.एफ.सी., एम.सी.जी. कार्यालय के माध्यम से प्रस्तुत करें तथा उपरोक्त Objection मूल फाईल दमकल केन्द्र सेक्टर-29, मुडगांव से किसी भी कार्य दिवस में आकर प्राप्त करें।

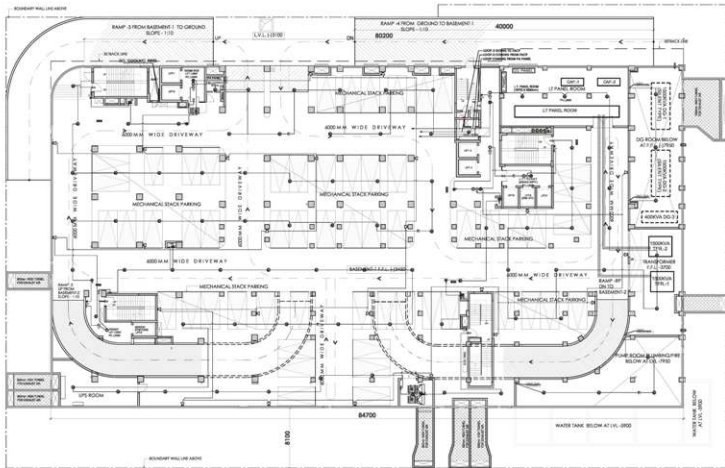

 वरिष्ठ दमकल केन्द्र अधिकारी,
 दमकल केन्द्र, सेक्टर-29,
 नगर निगम मुडगांव।

Revised Building Plan of Commercial Colony Measuring 2.893 Acres (License No. 34 of 2012 dated 15-4-2012) in Sector- 70, Gurgaon Manesar Urban Complex being developed by Shine Buildcon Pvt. Ltd. FIRE ADVISOR COMMITTEE: QUESTIONNAIRE FOR COMMERCIAL AREA							
The proposed Fire Fighting Scheme							
S.No	DESCRIPTION	AS PER NBC	Proposed				
1	Name of Building	----	Revised Building Plan of Commercial Colony Measuring 2.893 Acres (License No. 34 of 2012 dated 15-4-2012) in Sector- 70, Gurgaon Manesar Urban Complex being developed by Shine Buildcon Pvt. Ltd.				
2	Address of Building	----	SHINE BUILDCON PVT. LTD. SECTOR-70, BADSHAPUR VILLAGE, GURGAON (HARYANA)				
3	Name and address of builder/promoter	----	SHINE BUILDCON PVT. LTD REGD. OFFICE: H-334,GROUND FLOOR,NEW RAJINDER NAGAR, NEW DELHI-110060 CORP. OFFICE: H-281,UDYOG VIHAR, PHASE-II, GURGAON (HARYANA)				
4	Name and address of Owner / occupiers of individual flats	----	SHINE BUILDCON PVT. LTD REGD. OFFICE: H-334,GROUND FLOOR,NEW RAJINDER NAGAR, NEW DELHI-110060 CORP. OFFICE: 281,UDYOG VIHAR, PHASE-II, GURGAON (HARYANA)				
5	Plot area (Gross)	----	2.5753 Acres (10421.85 Sqm.)				
6	Covered area (at ground Lvl)	----	2806.24				
7	Height of building from N.H.	----					
8. a)	Overall height (from grade level/ surrounding ground level)		55.40M				
b)	Height upto the highest occupied floor		42.4 M				
9	Number of floors (including ground floor)		3 BASEMENT AND G+12 FLOOR (16 FLOORS)				
10. a)	Number of basements (please indicate level below grade in each case)		3 Basement Basement 1 = -3.5M. Lvl. Basement 2 = -8.00M. Lvl. Basement 3 = -12.50M. Lvl.				
b)	Area of Basement and Podium	----	Basement 1 = 3510.00 Sqm. Basement 2 = 3920.03 Sqm. Basement 3 = 3723.13 Sqm. Total Basement Area (B1+B2+B3) = 11153.16 Sqm.				
11	Occupancy (use - Please mention separately for basement and floors)	PART-4 CLAUSE 4.3 & 4.4.2.1 TABLE-3	Floors	Covered Area (Sqm.)	No. of Studio Apartment	No. of 1BHK /STUDIO	Population
	RETAIL	3 Sqm. Per Person	Ground Floor	2772.96			924.32
		6 Sqm. Per Person	First Floor	2406.13			401.02
		6 Sqm. Per Person	Second Floor	2383.02			397.17
		6 Sqm. Per Person	Third Floor	2463.12			410.52
		Cinema seating (366Nos.)					439.20
		Food Court 6 Sqm. Per Person		1590			265.00
	SERVICE FLOOR		Fourth Floor (Service Floor)				
	SERVICE APARTMENTS	2 person per studio , 5 person per 1BHK	Fifth Floor	1173.39	28	3	71.00
			Sixth Floor	1173.39	28	3	71.00
			SeventhFloor	1173.39	28	3	71.00
			Eighth Floor	1132.14	28	3	71.00
			Nlnth Floor	1132.14	28	3	71.00
			Tenth Floor	1132.14	28	3	71.00
			Eleventh Floor	1079.01	28	3	71.00
	MULTIPURPOSE HALL	6 Sqm. Per Person	Twelfth Floor	389.75	0	0	64.96
				TOTAL POPULATION			3399.19
12	Covered area of typ. Floors	----	Floor	Covered Area (Sqm.)			
			Ground Floor	2772.96			
			First Floor	2406.13			
			Second Floor	2383.02			
			Third Floor	2463.12			
			Fourth Floor	74.81			
			Fifth Floor	1173.39			
			Sixth Floor	1173.39			
			SeventhFloor	1173.39			
			Eighth Floor	1132.14			
			Nlnth Floor	1132.14			
			Tenth Floor	1132.14			
			Eleventh Floor	1079.01			
			Twelfth Floor	389.75			
			Total	18485.39			
13	Parking areas Basement @ 35 Sqm / ECS Surface @ 25 Sqm / ECS		No. of Parking	Parking Area (Sqm.)			
		Basement 1 =	112	2654.98			
		Basement 2 =	116	2691.51			
		Basement 3 =	120	2835.18			
		Surface Parking =	55	1375			
	If basement extends beyond the building line, please indicate the load bearing strength of the roof of basement	NBC PART 4 CLAUSE 5.1.6 45 MT (Fire tender load)	60 Ton For Fire Tender Movement				

S.No	DESCRIPTION	AS PER NBC	Proposed				
25	The type of hoses	Required NBC , Clause 6.4.8.2 RRL delivery hose as per IS 636-1988	Reinforced rubber lined hose as per IS 636				
a	The size(bore) of hoses	Required NBC , Clause 6.4.8.2 63 mm dia	63 mm dia				
b	The length of each hose	Required NBC , Clause 6.4.8.2 15 meters for each FHC	15m long				
c	Total No. of hoses provided near each hydrant	Required NBC , Clause 6.4.8.2 2 Nos With Each Hydrant	4 Nos. with each FHC				
d	Have branch pipes been provided? If so, please indicate.	Required NBC , Clause 6.4.8.2	Yes				
26	The type of branch pipe	Required NBC , Clause 6.4.8.2 Short branch pipe	Short type gun metal				
a	Size of nozzle fitted to each pipes	Required NBC , Clause 6.4.8.2 63mm Dia 20 mm Nozzle	63mm x 20mm dia				
b	a) If the basement is used for car parking or storage, has it been sprinklered?	Table -23 Unit -8 Clause 5.1.7 Required	Yes, sprinklers are provided in entire basement				
27	b) Whether segregation / compartmentation of the basement has been provided. If so please detail-	NBC PART 4 CLAUSE C9 Area of compartmentation - 2000 sqmt.	Basement compartmentation provided Maximum area of compartmentation 3000 sqmt. and maximum sprinkler coverage is 9 sqmt. and spacing is 3m x 3m in each compartmentation				
	Is the building equipped with automatic fire detection and alarm system? if so, please indicate –	Table -23 NBC- SECTION-18,2005	Yes, Addressable Fire detection and Alarm system shall be provided. Smoke detectors for shops, corridors and lobby area, Multidetector at electrical Room, Basement, Heat (ROR cum fixed type) detector for Kitchen area shall be provided.				
28	The type of detectors used	Required NBC , Clause 1.6.4	Multi Criteria detector, Smoke and Heat detectors				
a	The standard to which the detectors conforms	NBC- SECTION-18,2005	IS: 2189				
b	c) the code to which the installation confirms.	NBC- SECTION-18,2005	NFPA - 72				
c	Have manual call boxes been installed in the building for raising an alarm in the event of an outbreak of fire? If so, please give details.	Required	Yes Manual Call boxes are installed at each entry, exit, staircases.				
29	Has a public address system been installed in the building with loud speakers on each floor.	NBC Part -4 Clause 5	Yes Public address system is installed in the building with Ceiling speakers on floors, and Horn type speakers including basement.				
30	Has an intercom system been provided between the various floors and the fire control room in the entrance lobby.	NBC Part -4 Clause 5	Yes fire telephone jacks are provided.				
31	Has a fire control room been provided in the entrance lobby of the building	NBC Part -4 Clause 5	Provided at Ground and basement-1				
32	How many Staircases have been provided in the building? And their details		No. of Staircase	5			
			Width of Stairway	1800/1500			
			Width of Treads	300			
			Height of Risers	150			
			Tread Surface	Non-Slip type			
33	What is the average occupant load per floor?	Table -20 (v) 3 Sqmt / person for ground floor, 6Sqmt / person for upper floors for Retail.	RETAIL	710 persons per floor			
			SERVICE APARTMENT	70 persons per floor			
34	How many lifts have been installed in the building? And details	Lift Type	Passenger Lift (RETAIL)	Passenger Lift (RETAIL)	Passenger Lift (SERVICE APARTMENT)	Freight Lift	
	No. of Lifts		2	2	3	1	
	Shaft Size		2000x2500	2000x2500	2000x2500	1800x3000	
	Floor Travel		Basement 3 to 3rd Floor	Basement 3 to 4th floor	Basement 3 to 12th floor	Basement 3 to 12th floor	
	Door Type	NBC PART 4 CLAUSE C1.5C	Automatic	Automatic	Automatic	Automatic	
	Fire Resistance rating of Lift Car & Door	NBC PART 4 CLAUSE C1.5E	2 Hrs.	2 Hrs.	2 Hrs.	2 Hrs.	
	Lift Car Size	Part-4 Clause 1.5q-2 1.4 sqmt. Min.	1200X2000X2100	1200X2000X2100	1200X2000X2100	1000X2400X2100	
	Loading Capacity	Part-4 Clause c-1.5q-2 1.4 sqmt. Min 545 Kg (8 Person) Lift	16PAX	16PAX	16PAX	1020 KG	
	Communication System	NBC PART Clause C-1.5	Yes	Yes	Yes	Yes	
	Fireman's Switch	PART 4 Clause 4.15.1	Yes	Yes	Yes	Yes	

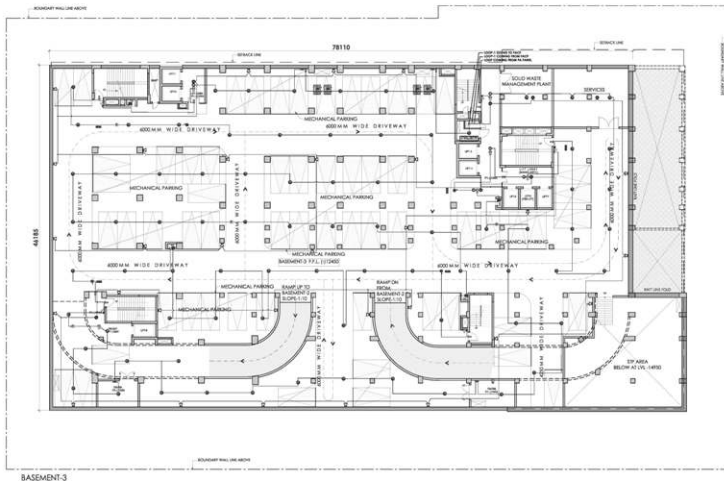
S.No	DESCRIPTION	AS PER NBC	Proposed				
35	Have any stationery fire pumps(s) been installed for pressurizing the wet riser? If so, please indicate	Required as per NBC PART-IV TABLE-23	Provided				
a	Number of pumps	Required As per NBC Table 23 NOTE-12 Main fire pump (Electric operated)-1No, Jockey pump 1No, Sprinkler pump (Electric operated)1No, Diesel operated fire pump 1 No.	Provided 5 nos. pumps				
b	The size of suction and delivery connections of each pump	200 & 150 dia.	Main Fire Pump 200 mm dia suction & 150 mm discharge. Jockey pumps 80 mm dia suction & 65 mm dia discharge.				
c	The output of each pump	Required As per NBC	1 No. main hydrant pump cap.2850 LPM @ 105m head				
		Table 23 NOTE-22	1 No. main sprinkler pump cap.2850 LPM @ 105m head				
		2850LPM (Hydrant), 180LPM (Jockey),	1 No. main curtain nozzle cap.2850 LPM @ 60m head				
		2850LPM (diesel), 2850	1 No. Diesel driven pump cap.2850 LPM @ 105m head				
		LPM (Sprinkler)	2 Nos. jockey pump cap.180 lpm @ 105m head				
d	The maximum head against which the pump can operate at the output Pressure mentioned at (c)	Required As per NBC Table 23 Minimum 35 M at the top most landing valve.	Minimum 3.5kg/Sqcm at the top most landing valve				
d	Is the pump automatic in action?	Required.	All pumps are in auto operation				
36	Has a standby source of power supply been provided? If it is through a generator, please indicate –	PART 4 Clause C1.15	Yes				
a	The capacity (output)						
b	The functions that can be maintained simultaneously by the use of generator, such as operating lift(s), fire pumps, emergency lighting etc.	PART 4 Clause C1.15	100% power backup to common areas, lifts and common services				
c	Is the generator automatic in action or has to be started manually ?	PART 4 Clause C1.15	Yes in Auto operation				
d	Has any yard hydrant been provided from the building's fire pump?	REQUIRED AS PER NBC Part - IV (2005) Table 23 TYPE E BUILDING	Provided @ 45mm c/c all around the buildings. external hydrant 8 Nos. at ground level				
37	Where more than one lifts are installed in a common enclosure, have individual lifts been separated by fire resisting walls of two hours fire rating?	NBC PART-4 Clause C1.5	Yes, lifts are separated by 2 hours fire rated walls.				
38	Has the lift shaft(s) lift lobby or stair wall been pressurized?	NBC PART-4 Clause C-1.4 & Clause C-1.5 g)	Yes, The lift shafts and Enclosed Lift Lobby shall be provided with pressurization system, consisting of axial flow fans installed on terrace. The staircases are pressurised in Basement 03level to Basement 01 level consisting of axial flow fans installed in Basement 01 and on upper floors these staircases are natural ventilated. Also one of the staircase is connected from basement 03 to fifth floor, which is also been pressurized , consisting of axial flow fans at terrace level and above the fifth floor this staircase is naturally ventilated..				
39	Have the lift lobbies and staircases been effectively enclosed to prevent fire/smoke entering them from outside at any floor?	NBC Part 4 Clause 4.2.9	Fire doors are also provided for fire staircase and shaft for the upper floor.				
40	Have all exits and directions of travel to each exit been sign posted with illuminated signs?	NBC Part 4 Clause 4.2.7	Yes				
41	Has a false ceiling been provided in any Public portion of the building? If so, please indicate location and also mention if the material used for the false ceiling is combustible on non-combustible.	Clause 5.1.7	Yes.Provided in lift lobbies, passage of apartment & Non-Combustible material (the wide space between soffit of slab and false ceiling is less than 800mm)				
42	Is the building centrally air conditioned?	Required	Yes, building is centrally air conditioned				
43	The material used for construction of ducts and its fittings.	NBC PART-8 Clause 4.3.1.1	GI Sheet				
a	The type of Lining used for ducts if any.	NBC PART-8 Clause 4.3.3.2	Acoustic insulation of nitrile rubber secured by an adhesive shall be instalited inside the duct				
b	Type of lining used, if any for insulating any portion of the duct, please also indicate how the lagging is secured.	NBC PART-8 Clause 4.3.3.2	Closed cell nitrile rubber secured by an adhesive				
c	If false ceiling is provided please give information as at 43 above.	NBC PART-4 Clause 5.1.7	Only non combustible material				
d	If plenum is used as return air passage has it been protected with fire detectors? Please give details	NBC PART-4 Clause 5.2.1	Yes with fire dampers				
e	Has a separate AHU been provided for each Floor?	NBC PART-4 Clause 3.4.11.4	Yes				
f	whether automatic shut down of A.H.U been coupled with detection system	Required	Yes, shall be provided.				
g	Is the ducting for each floor effectively isolated or is it continuous on more than on floors ?	NBC PART-4 Clause 3.4.11.1	Yes, ducting for each floor effectively isolated				

S.No	DESCRIPTION	AS PER NBC	Proposed				
h	Is the fire dampers being provided?	Required	Yes, fire dampers shall be provided on supply air and return air duct.				
i							
	Where are the switchgear and transformer located? If inside the building, please indicate.		In the First Basement				
44	If the switch gear and transformer(s) have been housed in separate compartments, effectively separated from each other and from other portions of the buildings by a four hour resistive wall?	Required	Switch gear and transformer(s) have been housed in separate compartments, effectively separated from each other and from other portions of the buildings by a two hour resistive wall.				
a)	What precautions have been taken to prevent a possible fire in the transformer (s) from spreading?	Required	Fire Extinguisher of Co2, type and Sand Buckets have been provided.				
b)							
	Where electric cables, telephone cables, Dry/wet risers/ down comers pass through a floor or wall have spaces (apertures) round the cables/pipes been effectively sealed plugged with non-combustible, fire resistant material?	Required	Yes. Fire barrier are provided in wall & floor, wherever required.				
45							
	Please indicate the number and type of fire extinguishers provided at various locations and arrangement for the maintenance of the extinguishers.	NBC Table-23 Clause 18.2.13.2	Fire Extinguishers have been provided in each shaft and at strategic locations complying to IS 15683. Fire extinguishers are marked with date of filling and expiry.				
46							
	Please indicate if all fire extinguishers bear the ISI certification mark.	Required	All fire extinguishers bear ISI certificate				
47	Whether the refuge area has been provided ? If so, the floor on which provided and the total area provided floor-wise.	NBC PART 4 CLAUSE 4.12.3	Floor		Area (Sqm.)		
48			7TH Floor		24.22		
	Are the occupants of the building systematically trained in the fire prevention use of fire extinguishers and emergency procedures? If so, please give details.	Required	will be trained at the time of occupation				
49	Does an emergency organization exits in the building? If so, please give details and append a copy of the emergency (fire) orders.	Required	will be confirmed at the time occupation				
50	Has a qualified Fire Officer been appointed for the building - either individually or jointly with other building(s)	NBC PART-4 C-6	Shall be appointed on completion of Project				
51	Is the building protected against lightning? If so, does the lightning protection conform to any code? Please indicate details.	NBC PART-8	Early streamer emission lightning protection provided as per NFC-17-102 code				
52	Ventilation						
53	a) Whether Natural ventilation is relied upon? If so, give detail of the vents for the stairwell lift lobby and lift shaft	NBC PART-4 Clause 3.4.12.2	The staircases are pressurised in Basement 03level to Basement 01 level consisting of axial flow fans installed in Basement 01 and on upper floors these staircases are natural ventilated. Also one of the staircase is connected from basement 03 to fifth floor, which is also been pressurized , consisting of axial flow fans at terrace level and above the fifth floor this staircase is naturally ventilated..				
	b) Whether Mechanical ventilation has been proposed? If so give detail of the proposed system indicating the no. of air changers for the basement and upper floors.	NBC PART-4 Clause C-1.6.4.2 & Clause 3.4.12.3	Mechanical ventilation has been proposed in Basement 1, Basement 2 and Basement 3 by using direct driven axial flow fan. Providing normal ventilation @ 6 ACPH and in case of fire @ 12 ACPH.				
	c) Whether Mechanical ventilation is coupled with automatic alarm and detection system please give detail of the system.	NBC PART-4 Clause 3.4.12.1	Yes				
	Whether Fire Movement road around the building has been provided/duly marked in the drawings.	NBC PART-4 Clause 4.6 c	YES				
54							
	Project Team						
		Fire & MEP Consultant	Architect	Owner			
	Name:	P K KALRA	ASHOK PANDIT				
	Designation:	DIRECTOR	CHIEF ARCHITECT				
	Organization:	C TO C SERVICES CONSULTANTS PVT LTD.	ACPL DESIGN LTD.				
	Date:	12.06.17	12.06.17				



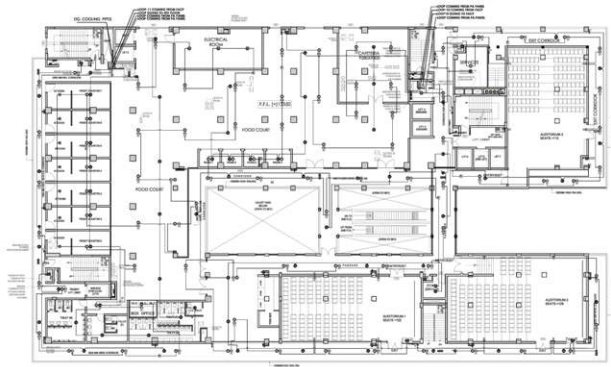
BASEMENT-1

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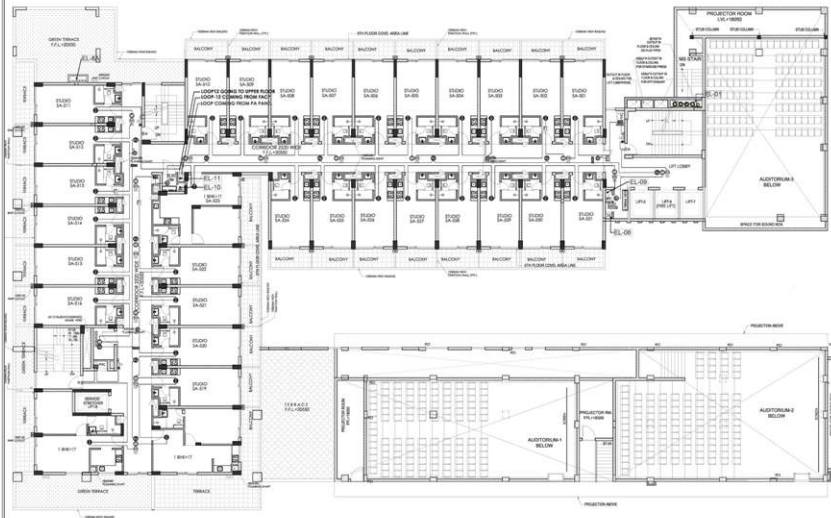
BASEMENT-3

LEGEND	
SYMBOL	DESCRIPTION
1	MINOR LIFT POINT
2	HOISTER
3	CONTROL MODULE FOR HOISTER
4	MONITOR SPACIAL
5	CONTROL MODULE
6	TALK BACK LINE
7	HEAT DETECTOR
8	SMOKE DETECTOR
9	SMOKE DETECTOR WITH TALK BACK
10	SMOKE DETECTOR WITH SOUNDER
11	SMOKE DETECTOR WITH SOUNDER
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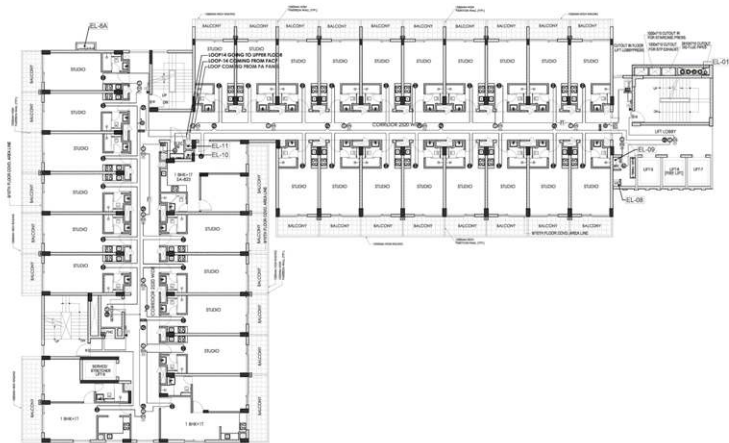


THIRD FLOOR PLAN

LEGEND	
SYMBOL	DESCRIPTION
1	MANUAL CALL POINT
2	HOISTER
3	CONTROL MODULE FOR HOISTER
4	MONITOR SPK/SL
5	CONTROL MODULE
6	TRAIL BACK LINE
7	HEAT DETECTOR
8	SMOKE DETECTOR
9	SMOKE DETECTOR WITH SOUNDER
10	SMOKE DETECTOR WITH SOUNDER
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100	SMOKE DETECTOR WITH SOUNDER







NINTH & TENTH FLOOR PLAN

LEGEND	
SYMBOL	DESCRIPTION
1	MANUAL CALL POINT
2	HOTSPOT
3	CONTROL MODULE FOR HOTSPOT
4	MONITOR MODULE
5	CONTROL MODULE
6	TRAIL BACK UNIT
7	HEAT DETECTOR
8	SMOKE DETECTOR
9	SMOKE DETECTOR ABOVE TRAIL BACK UNIT
10	SMOKE DETECTOR WITH SOUNDER
11	MAX TOLERANCE DETECTOR
12	STROBE INDICATOR
13	HALL MOUNTED SPEAKER
14	STROBE LIGHT
15	EXIT LIGHT
16	RESPONSE INDICATOR
17	FAULT INDICATOR
18	RELAY MODULE FOR SMOKE
19	CONTROL MODULE FOR PANELED
20	SMOKE DETECTOR ABOVE PANELED
21	RELAY MODULE FOR SMOKE
22	RELAY MODULE FOR SMOKE
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99	RELAY MODULE FOR SMOKE
100	RELAY MODULE FOR SMOKE

NO. OF PAGES: 10

NO. OF SHEETS: 10

PROJECT NO.: 70 GRANDVALE

COMMERCIAL PROJECT AT 70 GRANDVALE

SECTION: 10000000

DATE: 10/10/2017

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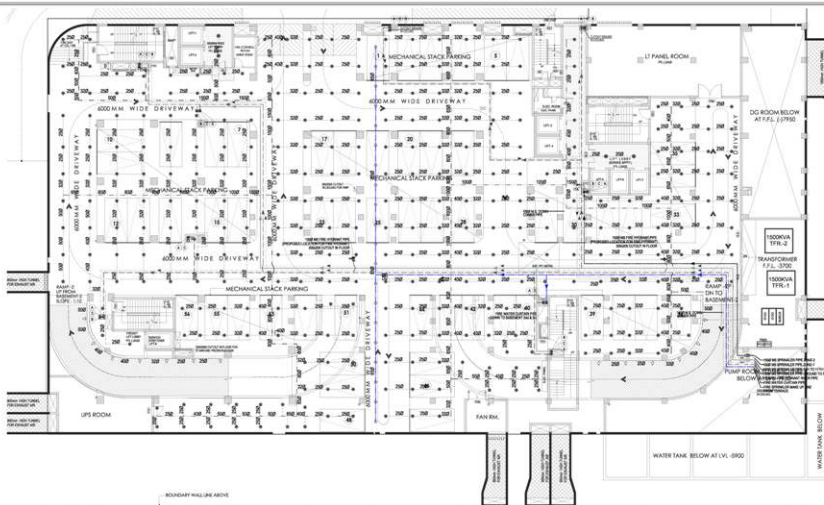
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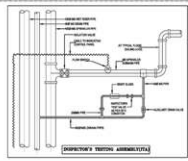
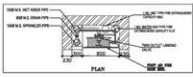
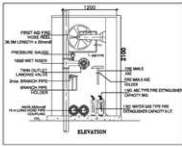
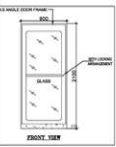
PIPE DIA (mm)	NUMBER OF SPRINKLER
250	1-2
320	3
400	4-5
500	6-10
650	11-18
800	19-40
1000	41-100
1500	101 & ABOVE

PIPE DIA (mm)	NUMBER OF SPRINKLER
250	1-2
320	3
400	4-5
500	6-10
650	11-18
800	19-40
1000	41-100
1500	101 & ABOVE

PIPE DIA (mm)	NUMBER OF SPRINKLER
250	1-2
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PIPE DIA (mm)	NUMBER OF SPRINKLER
250	1-2
320	3
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800	19-40
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1500	101 & ABOVE

PIPE DIA (mm)	NUMBER OF SPRINKLER
250	1-2
320	3
400	4-5
500	6-10
650	11-18
800	19-40
1000	41-100
1500	101 & ABOVE



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FIRE SUBMISSION

BASMENT-1 CEILING PLAN (PIPE FIGHTING LAYOUT)

Project: [] Drawn: [] Approved: []

Date: [] Scale: []

Drawn by: []

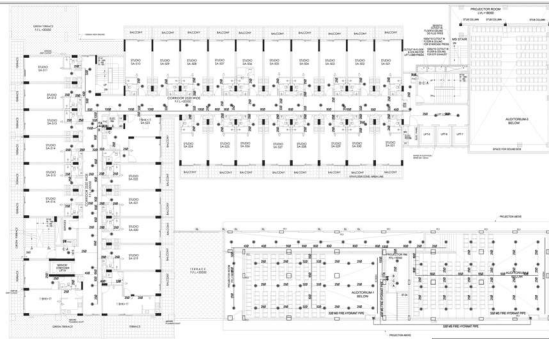
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LEGEND

☐	NO. 1000 (SMALL) PULL
☐	NO. 1000 (LARGE) PULL
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PIPE DIA (mm)	NUMBER OF SPRINKLERS
250	1-2
320	3
430	4-5
500	6-10
650	11-15
800	16-40
1000	41-100
1500	101 & ABOVE

NO. OF PIPES	NO. OF VALVES	NO. OF JUNCTIONS
NO.	NO.	NO.
1-1	1-1	1-1

NOTES:
 1. ALL PIPES SHALL BE 150mm DIA.
 2. ALL VALVES SHALL BE 150mm DIA.
 3. ALL JUNCTIONS SHALL BE 150mm DIA.

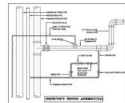
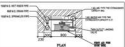
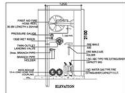
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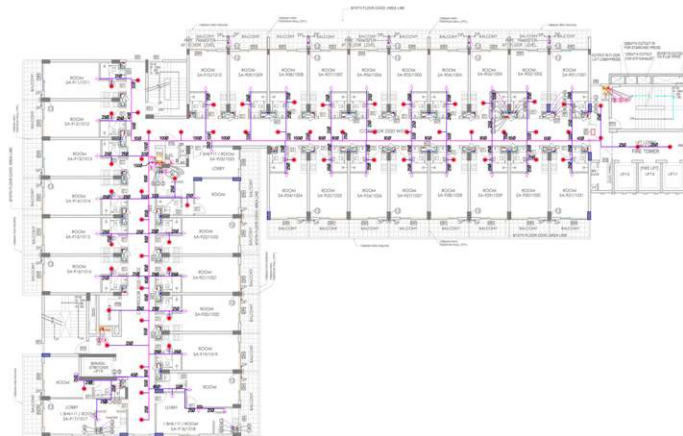
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FIRE SUBMISSION

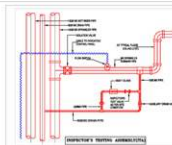
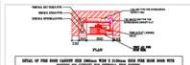
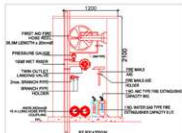
FIFTH FLOOR PLAN (SEE DRAWING LAYERS)

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4	1-11-2000	1-11-2000
5	1-11-2000	1-11-2000





NINTH & TENTH FLOOR PLAN



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LEGEND

PIPE DIA (MM)	NUMBER OF SPRINKLER
250	1-2
300	3
400	4-5
500	6-10
600	11-15
800	16-20
1000	21-30
1200	31-40
1500	41-50
1800	51-60
2000	61-70
2200	71-80
2500	81-90
2800	91-100
3000	101 & ABOVE

NO. OF PRINTS	NO. OF PAGES	DATE
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NO.	REV.	DATE
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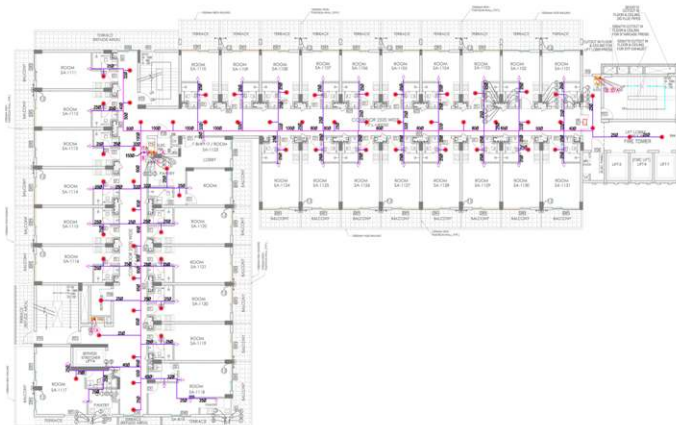
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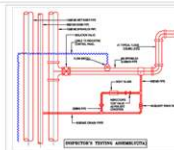
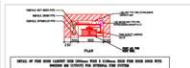
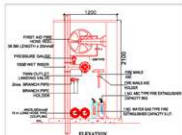
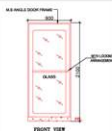
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ELEVENTH FLOOR PLAN



Year	Country	Population (millions)	Life expectancy (years)	Healthcare expenditure (USD per capita)
1990	USA	248	75	100
1995	USA	265	77	120
2000	USA	281	78	140
2005	USA	294	79	160
2010	USA	309	80	180
2015	USA	323	81	200
2020	USA	337	82	220
2025	USA	350	83	240
2030	USA	362	84	260
2035	USA	374	85	280
2040	USA	385	86	300
2045	USA	396	87	320
2050	USA	407	88	340
2055	USA	418	89	360
2060	USA	429	90	380
2065	USA	440	91	400
2070	USA	451	92	420
2075	USA	462	93	440
2080	USA	473	94	460
2085	USA	484	95	480
2090	USA	495	96	500
2095	USA	506	97	520
2100	USA	517	98	540

LEGEND	
PIPE DIA (mm)	NUMBER OF SPRINGS
250	1-2
320	3
400	4-5
500	6-10
650	11-18
800	19-40
1000	41-100
1500	101 & ABOVE

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PROJECT FIVE

Keywords:

1000

ACPL 2000

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2000-01-01
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FILE SUBMISSION

Abstract The purpose of this study was to determine the effect of a 12-week, low-intensity, supervised walking program on the physical and psychological health of sedentary, middle-aged women. The study was a randomized, controlled trial. The subjects were 40 sedentary, middle-aged women who were randomly assigned to either a supervised walking program or a control group. The walking program consisted of 12 weeks of supervised walking, 3 times per week, for 30 minutes per session. The control group consisted of 20 women who did not participate in the walking program. The subjects were assessed at baseline and at 12 weeks. The walking program had a significant positive effect on the physical and psychological health of the subjects. The walking program significantly improved the subjects' physical health, as measured by the 6-minute walk test, and their psychological health, as measured by the Beck Depression Inventory and the State-Trait Anxiety Inventory. The walking program also had a significant positive effect on the subjects' quality of life, as measured by the SF-36. The walking program was well tolerated and had no adverse effects. The results of this study suggest that a supervised walking program can be an effective intervention for improving the physical and psychological health of sedentary, middle-aged women.

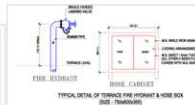
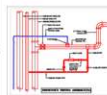
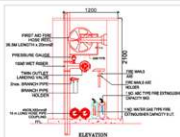
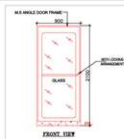
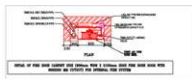
ELEVENTH FLOOR PLAN
(FIRE FIGHTING LAYOUT)

From	Checked	Approved
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Year	Age	Sex
1990	10	Male
1991	11	Female
1992	12	Male
1993	13	Female
1994	14	Male
1995	15	Female
1996	16	Male
1997	17	Female
1998	18	Male
1999	19	Female
2000	20	Male
2001	21	Female
2002	22	Male
2003	23	Female
2004	24	Male
2005	25	Female
2006	26	Male
2007	27	Female
2008	28	Male
2009	29	Female
2010	30	Male
2011	31	Female
2012	32	Male
2013	33	Female
2014	34	Male
2015	35	Female
2016	36	Male
2017	37	Female
2018	38	Male
2019	39	Female
2020	40	Male
2021	41	Female
2022	42	Male
2023	43	Female
2024	44	Male
2025	45	Female
2026	46	Male
2027	47	Female
2028	48	Male
2029	49	Female
2030	50	Male
2031	51	Female
2032	52	Male
2033	53	Female
2034	54	Male
2035	55	Female
2036	56	Male
2037	57	Female
2038	58	Male
2039	59	Female
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2045	65	Female
2046	66	Male
2047	67	Female
2048	68	Male
2049	69	Female
2050	70	Male
2051	71	Female
2052	72	Male
2053	73	Female
2054	74	Male
2055	75	Female
2056	76	Male
2057	77	Female
2058	78	Male
2059	79	Female
2060	80	Male
2061	81	Female
2062	82	Male
2063	83	Female
2064	84	Male
2065	85	Female
2066	86	Male
2067	87	Female
2068	88	Male
2069	89	Female
2070	90	Male
2071	91	Female
2072	92	Male
2073	93	Female
2074	94	Male
2075	95	Female
2076	96	Male
2077	97	Female
2078	98	Male
2079	99	Female
2080	100	Male

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LEGEND	
PIPE DIA. (mm)	NUMBER OF SPRINKLE
250	1-2
320	3
400	4-5
500	6-10
600	11-18
800	19-40
1000	41-100
1500	101 & ABOVE

NO. OF PEOPLE	GRANTED TO	SA

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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ACBI 2004

ACPL 10000

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FIRE SUBMISSION

(Continued) 1849

TERRACE / TWELFTH FLOOR PLAN

(FIRE FIGHTING LAYOUT)

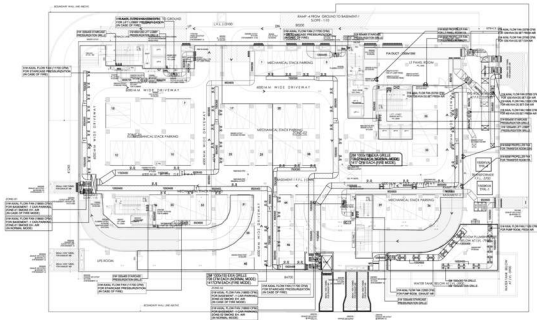
From	Character	Approved
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SUBJECT	STUDY	NO.

Shaping No.	10867-2796
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49-15

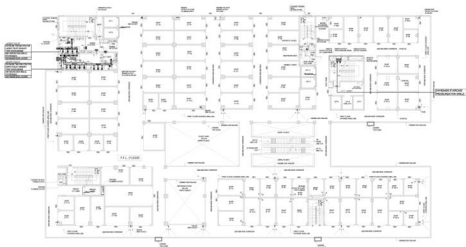


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1	ISSUED FOR PERMIT	01/11/2011
2	REVISION	01/11/2011
3	REVISION	01/11/2011
4	REVISION	01/11/2011
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1	ISSUED FOR PERMIT	01/11/2011
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16	REVISION	01/11/2011
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19	REVISION	01/11/2011
20	REVISION	01/11/2011

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	01/11/2011
2	REVISION	01/11/2011
3	REVISION	01/11/2011
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18	REVISION	01/11/2011
19	REVISION	01/11/2011
20	REVISION	01/11/2011



NO.	DESCRIPTION	UNIT
1	RECEPTION	101
2	OFFICE	102
3	CONFERENCE	103
4	RESTROOM	104
5	KITCHEN	105
6	STORAGE	106
7	LOBBY	107
8	ELEVATOR	108
9	STAIRWELL	109
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ACPL

ACPL Design & Construction, Inc.

10000 100th Avenue, Suite 1000

Eden Prairie, MN 55324

Phone: 952.938.1000

Fax: 952.938.1001

Internet: www.acpl.com

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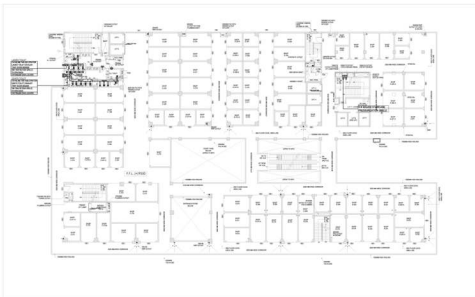
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DATE: 01/01/00

BY: 01/01/00

FOR: 01/01/00

REVISION: 01/01/00

REVISION: 01/01/00

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REVISION: 01/01/00

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FIRE SUBMISSION

PROJECT NO.

PROJECT NAME

PROJECT ADDRESS

PROJECT CITY

PROJECT STATE

PROJECT ZIP

PROJECT PHONE

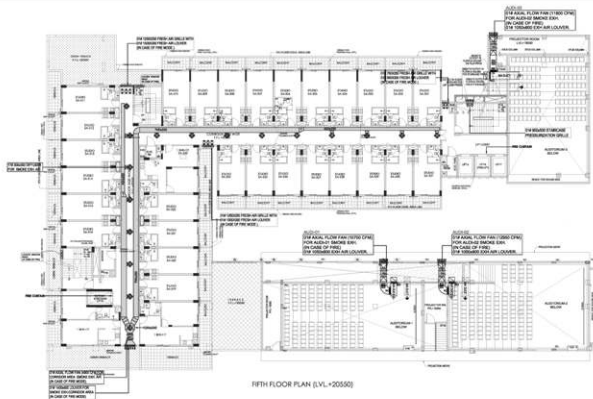
PROJECT FAX

PROJECT EMAIL

PROJECT WEBSITE

PROJECT CONTACT

PROJECT NOTES



FIFTH FLOOR PLAN (LVL +20550)

NO.	SYMBOL	DESCRIPTION
1		SUPPLY AIR DUCT
2		EXHAUST AIR DUCT
3		EXHAUST AIR DUCT
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SHEET NO: 100

DATE: 10/10/2017

BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

PROJECT NO: 100

PROJECT NAME: 100

PROJECT LOCATION: 100

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PROJECT STATUS: 100

PROJECT START DATE: 100

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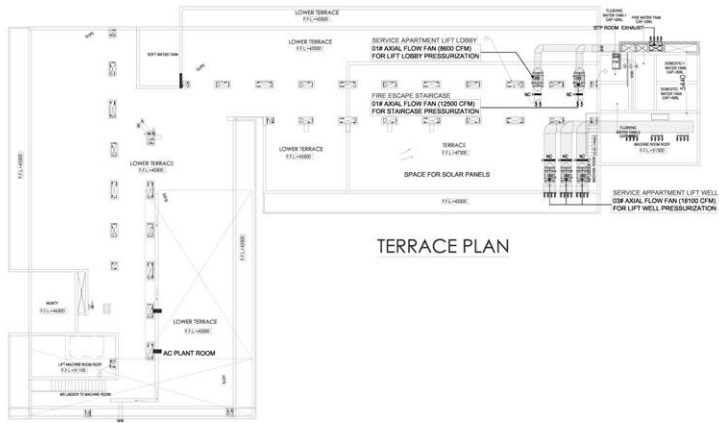
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PROJECT BEHAVIOR: 100

PROJECT ATTITUDE: 100

PROJECT EMOTION: 100

PROJECT COGNITION: 100



PLANT CODE	DESCRIPTION	SYMBOL
1-16	SUPPLY AIR DUCT	
1-17	TPA DUCT	
1-18	CONDENSATE AIR DUCT	
1-19	CONDENSATE DRAIN DUCT	
1-20	REFRIGERANT MAIN PIPES	
1-21	DRAIN PIPES	
1-22	SPI CIRCUIT (SUCTION)	
1-23	SPI CIRCUIT (DISCH)	
1-24	TPA SUPPLY OFFFLOW	
1-25	CONDENSATE AIR OFFFLOW	
1-26	DISCH. VALVE	
1-27	DISCH. VALVE (W/INSTR. (INTERNAL PRESS.))	
1-28	MOTOR-DRIVEN FLOW CONTROLLER (FLOW CONTROL)	
1-29	VALVE (CONTROL VALVE)	
1-30	LOUVER	
1-31	REFRIG.	
1-32	TEMPERATURE	
1-33	ACCUSED PANEL	
1-34	VIEW IN ROOM UNIT	
1-35	RELIEF VALVE	
1-36	AXIAL FLOW FAN	

NO. OF PARTS	NO. OF TS	DATE
DATE	DATE	TOTALS
REVISIONS		

PROJECT FIVE

RESEARCH BY J. STEVENSON AND JOE GOODMAN FOR THE COMMERCIAL & INDUSTRIAL RESEARCH ASSOCIATION OF THE UNITED STATES OF AMERICA
MEMBERSHIP LIST FOR JANUARY 1968 PREPARED BY DR. JOE GOODMAN

ACPL Advanced Circuit Products Ltd.

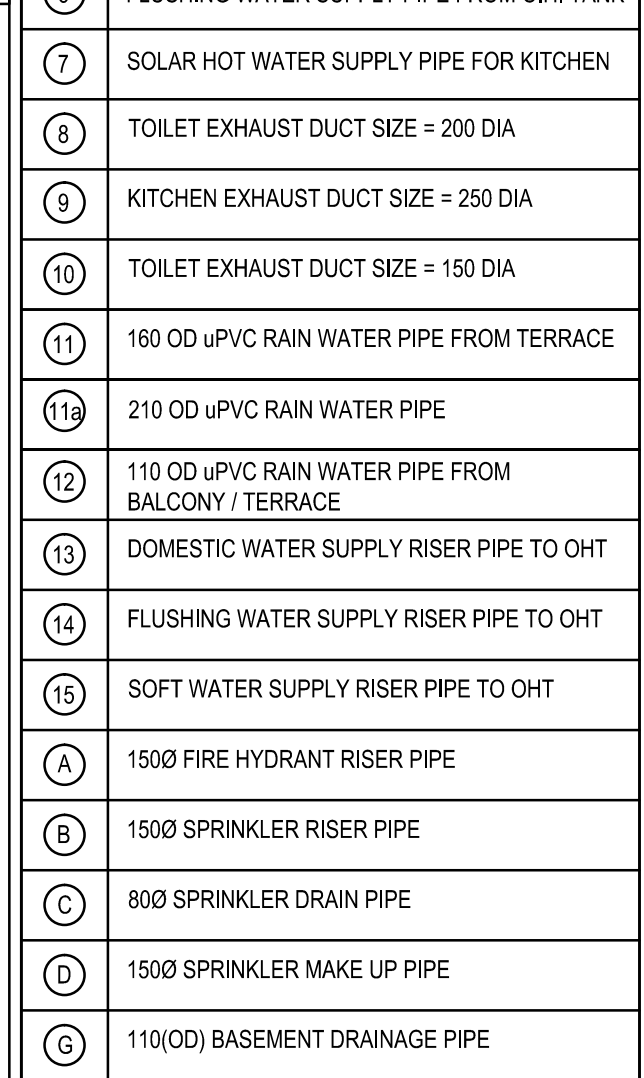
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C-200C Service Consultants, Inc.
 1401 - Commercial - North York, Ont.
 1402 - Commercial - North York, Ont.
 1403 - Commercial - North York, Ont.
 1404 - Commercial - North York, Ont.
 1405 - Commercial - North York, Ont.

FIRE SUBMISSION

[illegible]

PLUMBING LEGEND	
①	110 (OD) uPVC SOIL VERTICAL & VENT PIPE
②	160 (OD) uPVC SOIL VERTICAL & VENT PIPE
③	110 (OD) uPVC WASTE VERTICAL & VENT PIPE
④	160 (OD) uPVC WASTE VERTICAL & VENT PIPE
⑤	75 (OD) uPVC ANTI SYPHONAGE PIPE
⑥	COLD WATER SUPPLY PIPE FROM HYDROPUNNETIC SYSTEM
⑦	COLD WATER SUPPLY PIPE FROM O.H.TANK
⑧	FLUSHING WATER SUPPLY PIPE FROM O.H. TANK



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ARCHITECTS:

ISO 9001:2008

ACBI

ALP Architecture

Management Planning

[illegible]

ACPI Design Ltd J-103 South Extension -1 T: +91 11 24622195

New Delhi 110049, India +91 11 24546709

www.dcoptonline.com E: contact@dcoptonline.com F: +91 11 24634069

MEP CONSULTANTS:

CTOC Services Consultants Pvt. Ltd.

E-67 - (Basement) Green Park Main

CroC New Delhi-110016 (INDIA)

Tel.: 41618888, 41618866
E-mail: steelinfo@steelconstruction.com

E-mail: ctocinfo@ctocconsultants.com

STAGE:

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MUNICIPAL SUBMISSION

NOTICE OF SUBMISSION

DRAWING TITLE:

BASEMENT-1

(PLUMBING LAYOUT)

(continued)

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Scale	Date	Rev. No.
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Drawing No.	ORIENTATION:
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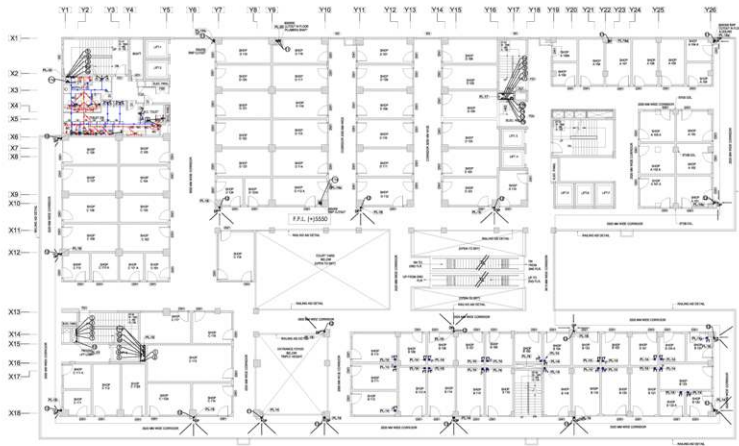
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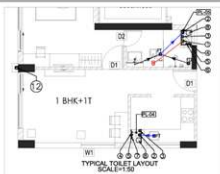
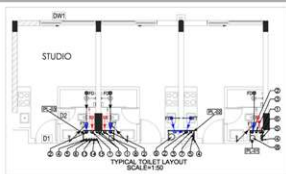
PLUMBING LEGEND

SYMBOL	DESCRIPTION
DWS	DOMESTIC WATER SUPPLY PIPE
DWS(T/F)	DOMESTIC WATER SUPPLY PIPE FOR TOP THREE FLOOR
DWS	DOMESTIC WATER RISER PIPE TO CHT
FWS	FLUSHING WATER SUPPLY PIPE
FWR	FLUSHING WATER SUPPLY RISER PIPE TO CHT
MWS	MCT WATER SUPPLY PIPE
DWS	SOFT WATER SUPPLY PIPE
DWS	SOFT WATER SUPPLY RISER PIPE TO CHT
FHC	FIRE HOSE CABINET

PLUMBING LEGEND
1. 1/2" DOMESTIC R/W VERTICAL & VENT PIPE
2. 1/2" DOMESTIC R/W VERTICAL & VENT PIPE
3. 1/2" DOMESTIC R/W VERTICAL & VENT PIPE
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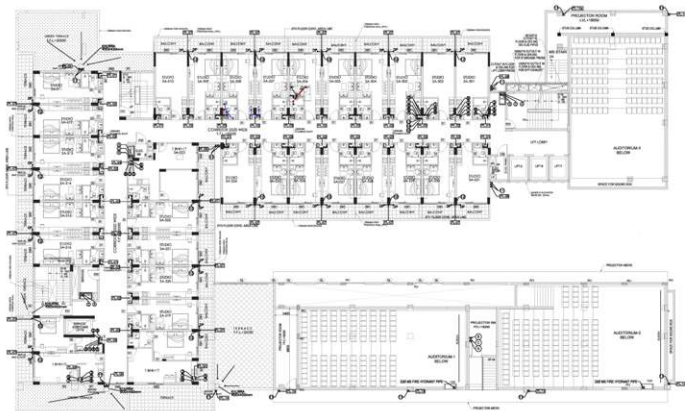
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ACPL ARCHITECTURAL CONSULTING & PLUMBING, LLC 10000 N. 10th Ave., Suite 100 Denver, CO 80231 Phone: (303) 733-1000 Fax: (303) 733-1001 Email: info@acpl.com		
MUNICIPAL SUBMISSION SUBMITTER: [Blank] SUBMITTER ADDRESS: [Blank] SUBMITTER CITY: [Blank] SUBMITTER STATE: [Blank] SUBMITTER ZIP: [Blank]		
FIRST FLOOR PLAN (PLUMBING LAYOUT) DRAWN BY: [Blank] CHECKED BY: [Blank] DATE: 2023-10-10 SCALE: 1/8" = 1'-0"		



PLUMBING LEGEND

SYMBOL	DESCRIPTION
DWS	DOMESTIC WATER SUPPLY PIPE
DWS(T/F)	DOMESTIC WATER SUPPLY PIPE FOR TOP THREE FLOOR
DWR	DOMESTIC WATER RISER PIPE PIPE TO GHT
FWS	FLUSHING WATER SUPPLY PIPE
FWR	FLUSHING WATER SUPPLY RISER PIPE TO GHT
HWS	HOT WATER SUPPLY PIPE
SWS	SOFT WATER SUPPLY PIPE
SWR	SOFT WATER SUPPLY RISER PIPE TO GHT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE REEL

PLANNING FUND

[illegible]

FIFTH FLOOR PLAN (LVL.+205.50)

NO. OF INQUIRIES	ANSWERED TO	DATE
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Source: *U.S. Census Bureau, 1997*

101	2010-2011	Revenue: All other taxes, license
102	2010-2011	Revenue: Franchise, nonresidential, commercial

11-10	10-10	10-10
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QUESTIONS

1987-1988

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ACM: Design, 1041898-1041900, 2017. 3 pp.

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ACKNOWLEDGMENTS

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ESTIMATED BY THE U.S. AIR FORCE

FIFTH FLOOR PLAN
(PLUMBING LAYOUT)

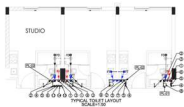
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1.12.2017	20.08.2017	81
		20.08.2017

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[illegible]



PLUMBING LEGEND	
SYMBOL	DESCRIPTION
DRW1	DOMESTIC WATER SUPPLY PIPE
DRW2	DOMESTIC WATER SUPPLY PIPE FOR TOP THREE FLOORS
DRW3	DOMESTIC WATER SUPPLY PIPE TO SHT
FRS1	FLOODING WATER SUPPLY PIPE
FRS2	FLOODING WATER SUPPLY PIPES TO SHT
FRS3	HTP WATER SUPPLY PIPE
FRS4	COPT WATER SUPPLY PIPE
FRS5	SAFT WATER SUPPLY PIPES TO SHT
FRS6	SAFT WATER SUPPLY PIPES TO SHT
FRS7	FRS ACROSS CORRIDOR

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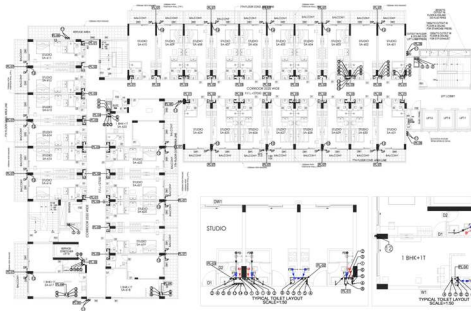
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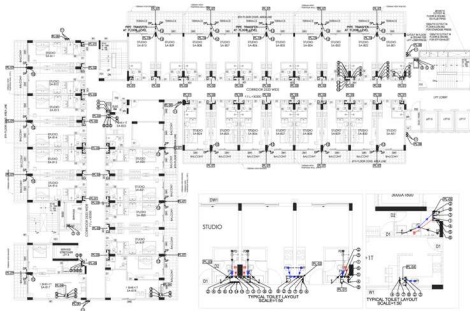
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DATE: 11/01/00





EIGHTH FLOOR PLAN

PLUMBING LEGEND

SYMBOL	DESCRIPTION
1/2"	20MICRON WATER SUPPLY PIPE
3/4"	20MICRON WATER SUPPLY PIPE FROM TOP TANKS FLOOR
1"	20MICRON WATER SUPPLY PIPE TO QHT
1 1/2"	FLUOROPOLYMER WATER SUPPLY PIPE
2"	FLUOROPOLYMER WATER SUPPLY INSULATED PIPE TO QHT
4"	40T WATER SUPPLY PIPE
6"	60T WATER SUPPLY PIPE
8"	80T WATER SUPPLY INSULATED PIPE TO QHT
10"	100T WATER SUPPLY INSULATED PIPE TO QHT
12"	120T WATER SUPPLY

PLUMBING LEGEND

1	1/2" x 1/2
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NO. OF SHEETS: 10/10

DATE: 10/10/2010

BY: [Signature]

CHECKED BY: [Signature]

DATE: 10/10/2010

PROJECT NO.: 10/10/2010

PROJECT NAME: 10/10/2010

PROJECT LOCATION: 10/10/2010

PROJECT DESCRIPTION: 10/10/2010

PROJECT OWNER: 10/10/2010

PROJECT MANAGER: 10/10/2010

PROJECT ENGINEER: 10/10/2010

PROJECT ARCHITECT: 10/10/2010

PROJECT CONSULTANT: 10/10/2010

PROJECT CONTRACTOR: 10/10/2010

PROJECT SUBMITTER: 10/10/2010

PROJECT REVIEWER: 10/10/2010

PROJECT APPROVER: 10/10/2010

PROJECT SIGNATURE: 10/10/2010

PROJECT DATE: 10/10/2010

PROJECT SCALE: 1/8\"/>

PROJECT SHEET: 10/10/2010

PROJECT TOTAL SHEETS: 10/10/2010

PROJECT PROJECTOR: 10/10/2010

PROJECT PLOTTER: 10/10/2010

PROJECT PRINTER: 10/10/2010

PROJECT FINISHER: 10/10/2010

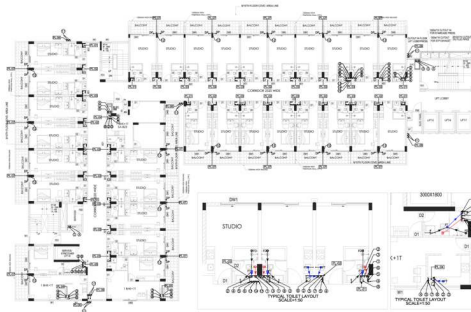
PROJECT DELIVERABLE: 10/10/2010

PROJECT STATUS: 10/10/2010

PROJECT COMMENTS: 10/10/2010

PROJECT REVISIONS: 10/10/2010

PROJECT NOTES: 10/10/2010



PLUMBING LEGEND:

SYMBOL	DESCRIPTION
DMS	DOMESTIC WATER SUPPLY - FIVE
DSMTN	DOMESTIC WATER SUPPLY - FIVE FOR TOP THREE FLOORS
DMSB	DOMESTIC WATER SUPPLY - FIVE FIVE TO GARD
FIVE	FLUORINATED WATER SUPPLY - FIVE
FIVEB	FLUORINATED WATER SUPPLY - FIVE FIVE TO GARD
HOT	HOT WATER SUPPLY - FIVE
SOFT	SOFT WATER SUPPLY - FIVE
SOFTB	SOFT WATER SUPPLY - FIVE FIVE TO GARD
WAT	WATER - CANNON

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ALL 30 YEARS	50-59 YEARS	60-69 YEARS
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Abstract

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TABLE 1

 Elsevier

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Journal of Internal Medicine 260: 101–108

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RESEARCH DESIGN

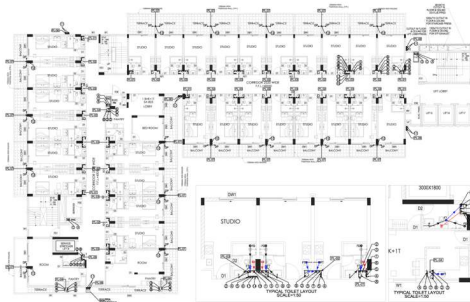
North & South Flood Plain (PLUMBING LAISTS)

Country	Year	Population
USA	1990	250
USA	2000	270
USA	2010	290
USA	2020	310
USA	2030	330
USA	2040	350
USA	2050	370
USA	2060	390
USA	2070	410
USA	2080	430
USA	2090	450
USA	2100	470
USA	2110	490
USA	2120	510
USA	2130	530
USA	2140	550
USA	2150	570
USA	2160	590
USA	2170	610
USA	2180	630
USA	2190	650
USA	2200	670
USA	2210	690
USA	2220	710
USA	2230	730
USA	2240	750
USA	2250	770
USA	2260	790
USA	2270	810
USA	2280	830
USA	2290	850
USA	2300	870
USA	2310	890
USA	2320	910
USA	2330	930
USA	2340	950
USA	2350	970
USA	2360	990
USA	2370	1010
USA	2380	1030
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USA		

Year	2000	2001
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Learning by	Learning with
40-100	10-40

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ALL OF WHICH	AMOUNT TO	DATE

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2	10/10/10	10/10/10
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Abstract

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PRODUCTS, LTD.

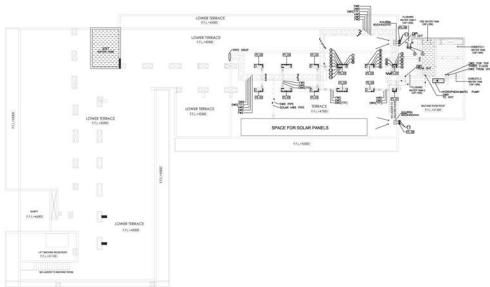
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1990年12月1日

PLUMBING LEGEND	DESCRIPTION
FWHLS	DOMESTIC WATER SUPPLY PIPE
FWHLS1	DOMESTIC WATER SUPPLY PIPE FOR TOP THREE FLOORS
FWHLS2	DOMESTIC WATER SUPPLY PIPE TO GWT
FWHLS3	PLUMBING WATER SUPPLY PIPE
FWHLS4	PLUMBING WATER SUPPLY PIPES TO GWT
FWHLS5	GWT WATER SUPPLY PIPE
FWHLS6	GWT WATER SUPPLY PIPE
FWHLS7	GWT WATER SUPPLY PIPES TO GWT
FWHLS8	FWHLS HOSE CARRIER

PLUMBING LEGEND	DESCRIPTION
FWHLS	DOMESTIC WATER SUPPLY PIPE
FWHLS1	DOMESTIC WATER SUPPLY PIPE FOR TOP THREE FLOORS
FWHLS2	DOMESTIC WATER SUPPLY PIPE TO GWT
FWHLS3	PLUMBING WATER SUPPLY PIPE
FWHLS4	PLUMBING WATER SUPPLY PIPES TO GWT
FWHLS5	GWT WATER SUPPLY PIPE
FWHLS6	GWT WATER SUPPLY PIPE
FWHLS7	GWT WATER SUPPLY PIPES TO GWT
FWHLS8	FWHLS HOSE CARRIER
FWHLS9	FWHLS HOSE CARRIER
FWHLS10	FWHLS HOSE CARRIER
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FWHLS100	FWHLS HOSE CARRIER



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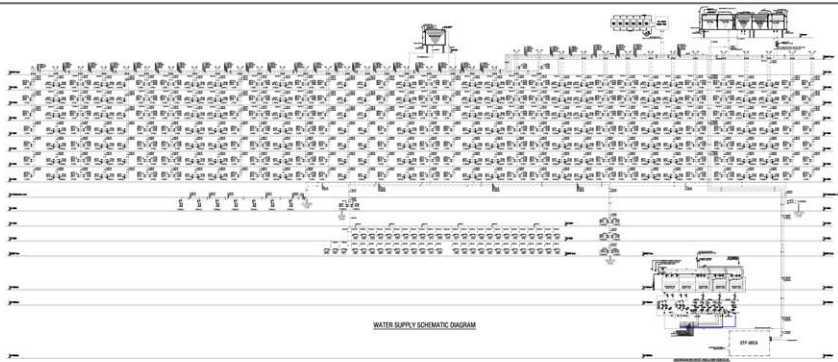
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