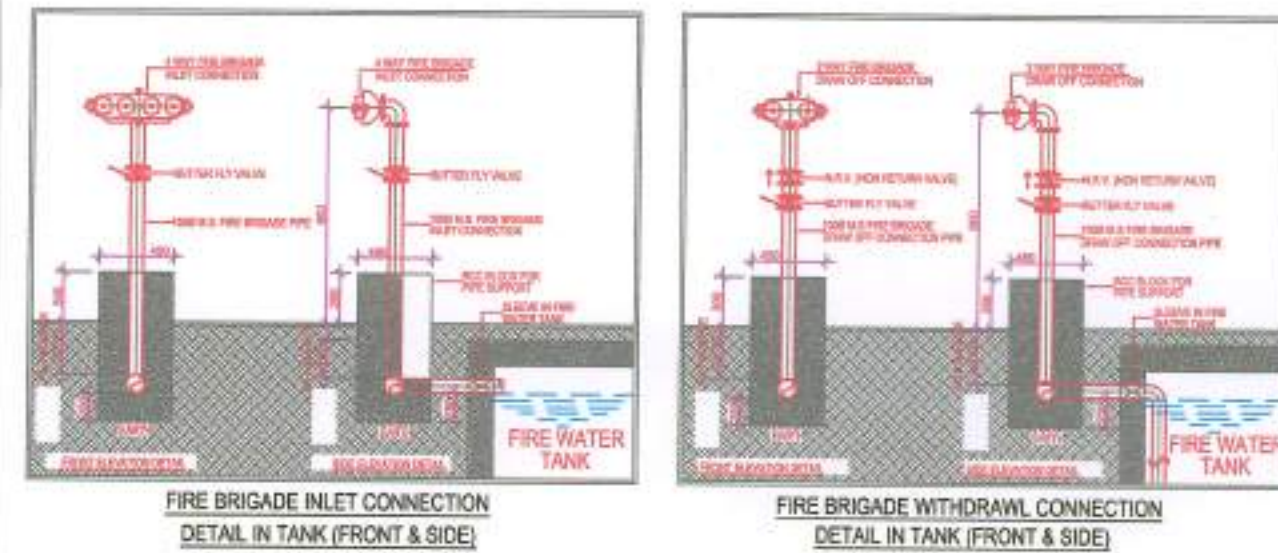
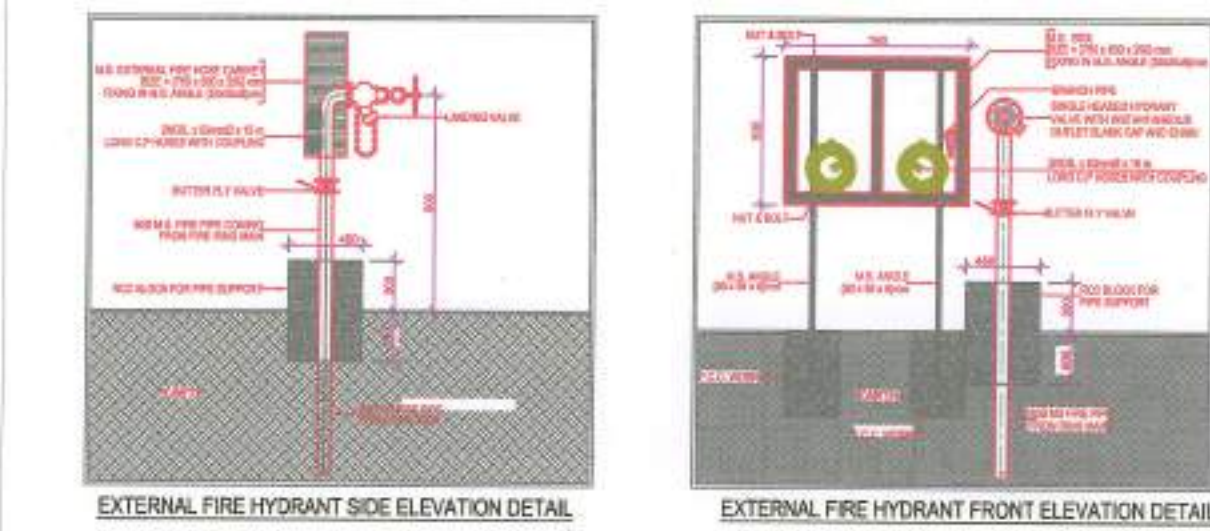




LEGEND FOR FIRE FIGHTING	
	M.S FIRE PIPE
	EXTERNAL FIRE HYDRANT
	FIRE BRIGADE CONNECTION
	6.0M WIDE FIRE TENDER

LEGEND FOR ICV	
	INSTALLATION CONTROL VALVE FOR LOWER FLOOR ZONE WORKING
	INSTALLATION CONTROL VALVE FOR LOWER FLOOR ZONE STANDBY
	INSTALLATION CONTROL VALVE FOR MIDDLE FLOOR ZONE WORKING
	INSTALLATION CONTROL VALVE FOR MIDDLE FLOOR ZONE STANDBY
	INSTALLATION CONTROL VALVE FOR HIGHER FLOOR ZONE WORKING
	INSTALLATION CONTROL VALVE FOR HIGHER FLOOR ZONE STANDBY
	INSTALLATION CONTROL VALVE FOR BASEMENTS

PLOT CL	
Site Area	2320.00 SQM
Zoned Area	1768.00 76%
Ground Coverage	1392.00 60%
General FAR @ 1.75	4060.00
Additional FAR for TOD @ 1.75	4060.00
Additional FAR for Green Building @ 12	278.40
Total Permissible FAR	8398.40 362%
Permissible Height	107.85

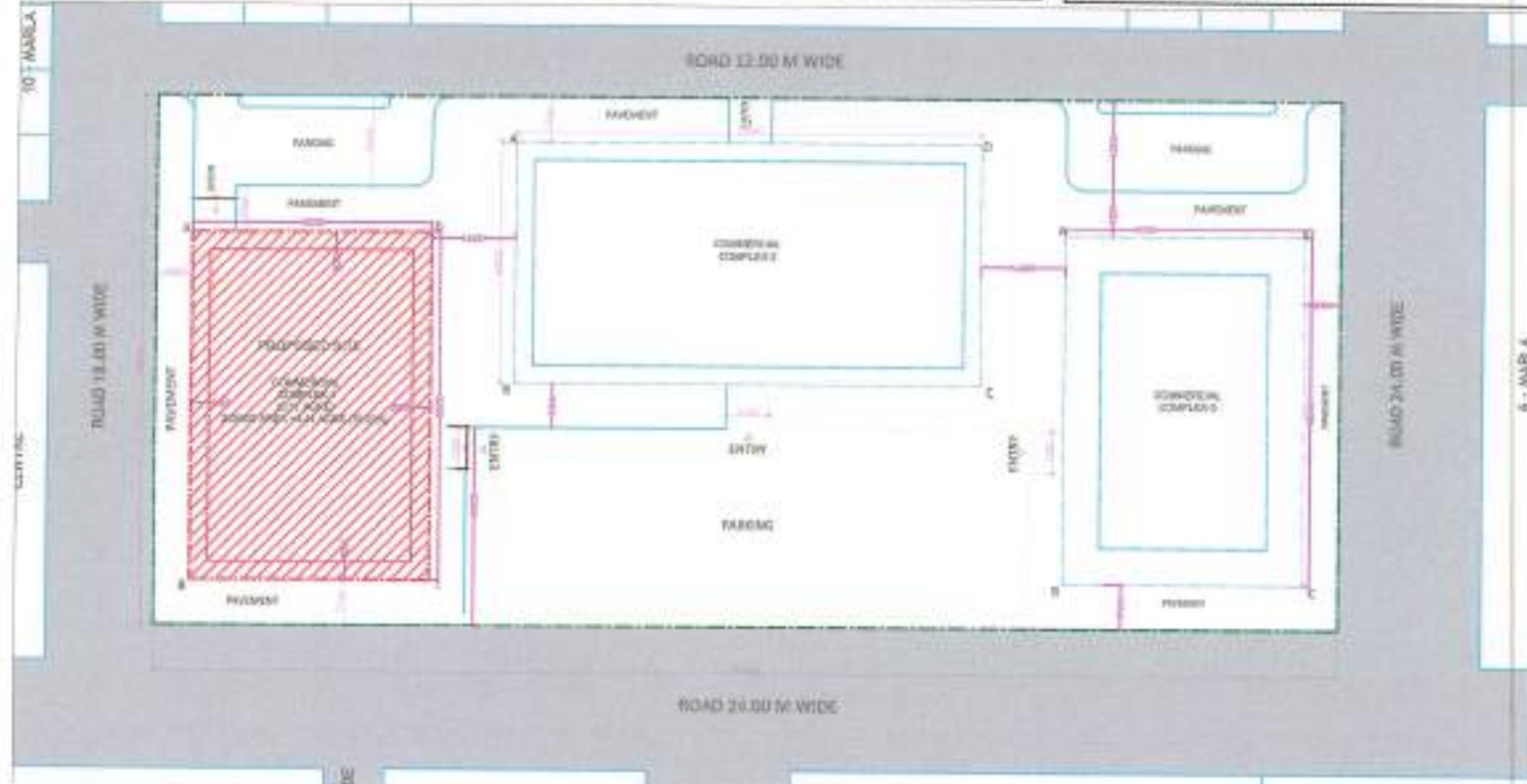
Proposed Scheme	
Proposed FAR	8326.13 358.88%
Proposed Height	105.65 M
Proposed Ground Coverage	1391.50 59.98%
Proposed Built Up (SUPERSTRUCTURE)	11348.50 SQM
Proposed Built Up (BASEMENT)	4989.11 SQM
Total built up area (total)	16337.61 SQM
Proposed Carpet Area	6138.01 SQM

ECS Requirement	
Proposed Carpet area	6138.01 SQM
Required ECS @ 1/50 SQM of Carpet area	124 ECS
Total Parking Proposed in 3 basements	125 ECS

REFUGE AREA CALCULATION						
FLOOR	HT	Area of two consecutive floors	Total area	Occupant Load @ 10sqm/PERSON	Area equl. @ 0.3sqm/PERSON	Additional area for wheelchair requirement
SIXTH FLOOR	25.70 m	404.76	372.21	777	23	0.90
TENTH FLOOR	41.30 m	138.73	138.73	277	8	0.90
FOURTEENTH FLOOR	56.90 m	138.73	138.73	277	8	0.90
EIGHTEENTH FLOOR	72.50 m	138.73	138.73	277	8	0.90
TWENTY SECOND FLOOR	88.10 m	138.73	138.73	277	8	0.90

PARKING				
A.	ON SURFACE	2 NO. 5 HANDICAP PARKING		
B.	IN BASEMENT	125 CARS		
BASEMENT LVL	BUILT UP	SERVICES	AREA FOR PARKING	ACTUAL NO. OF CARS
				PARKING SLOTS TOTAL NO.
BASEMENT 1	1703.19	588.19	1115.00	19 DOUBLE STACK 38
BASEMENT 2	1560.27	551.19	1008.94	19 DOUBLE STACK 38
BASEMENT 3	1725.65	541.31	1184.34	22 DOUBLE STACK 44
TOTAL	4989.11	1680.69	3308.28	5 SINGLE CARS 5
TOTAL (A+B)				125

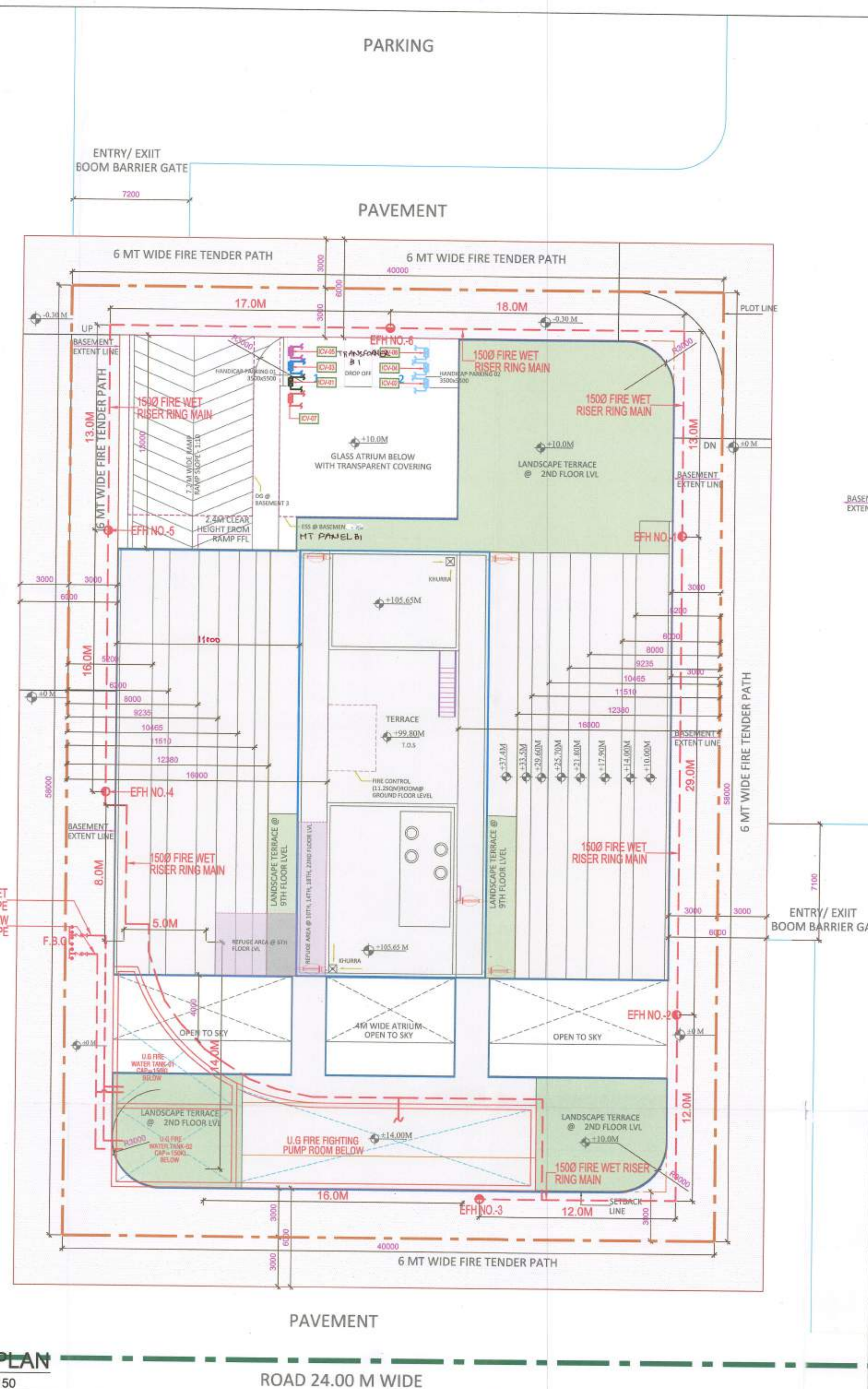
PROPOSED GREEN AREA	
GREEN AREA	372.20 sqm



ROAD 18.00 M WIDE

PAVEMENT

1500 FIRE BRIGADE INLET CONNECTION PIPE
1000 FIRE BRIGADE DRAW OFF CONNECTION PIPE



SITE PLAN
SCALE 1:150

ROAD 24.00 M WIDE

Authority Signatory

ANK CONSULTANTS
(Fire Fighting Consultants)

It is Certified that these drawing are as per original drawings approved by HSPV Haryana Vide memo No. 22/02/23 dated 22/02/23

Architects:

OWNER SIGN

ARCHITECT SIGN

Ar. VINOD K. GOYAL
CA/2018/114682
H.No. 739/2, Patel Nagar, Gurugram

Clients:

ESSEL INFRA LLP

Project Title:

COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE SECTOR -43, GURUGRAM.

Drawing Title:

SUBMISSION DRAWING scheme is revised 14/10/2023

Scale: 1:150

Date: SEP-2023

Drawn By: S.G. Fire Fighting Scheme Approved by HSPV Haryana

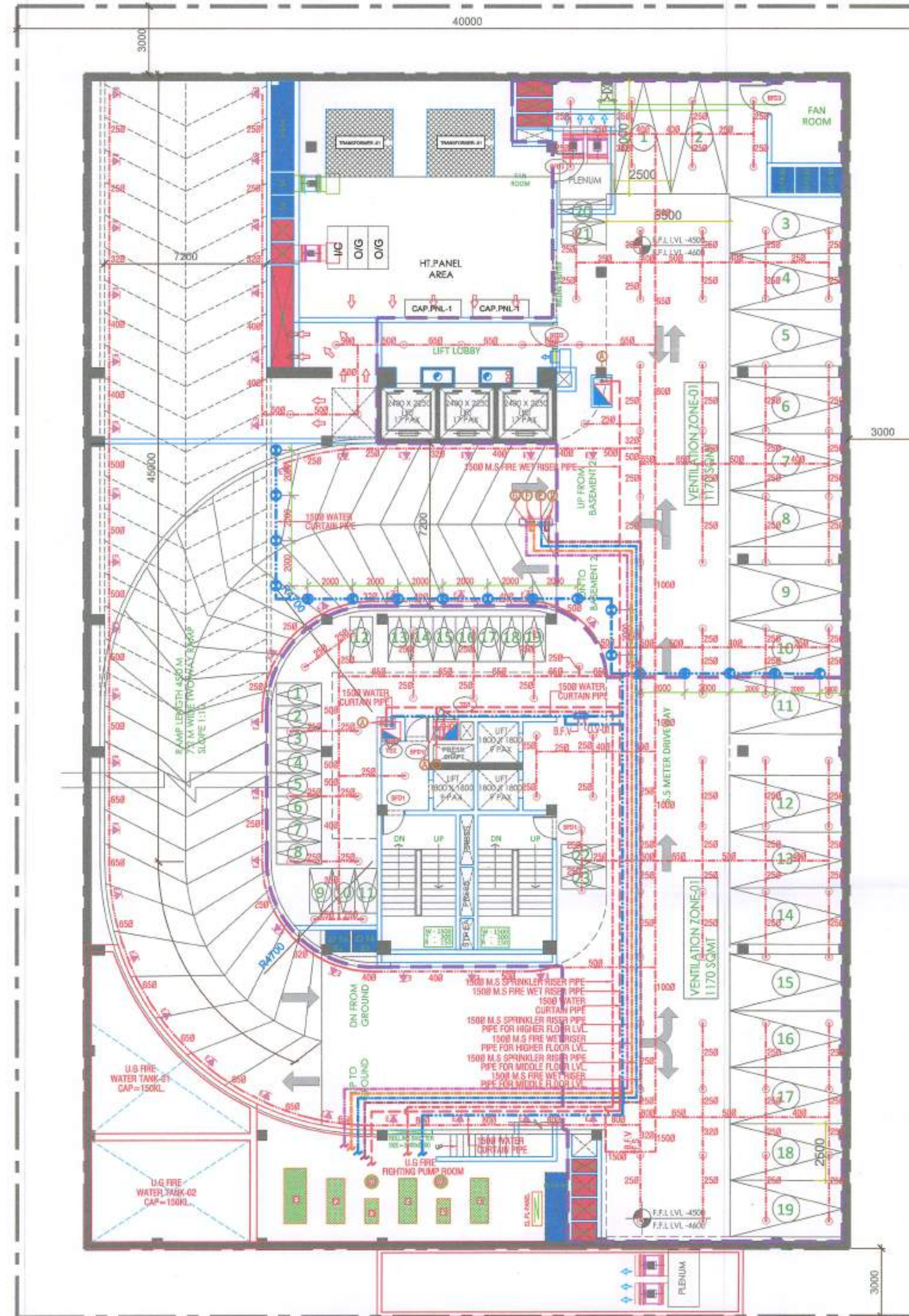
Checked By: A.S. Date: 14/10/23

Sheet Size: A1

Scale: 1:150

Drawing No: 02-23-H601

Deputy Clerk (Tech.)

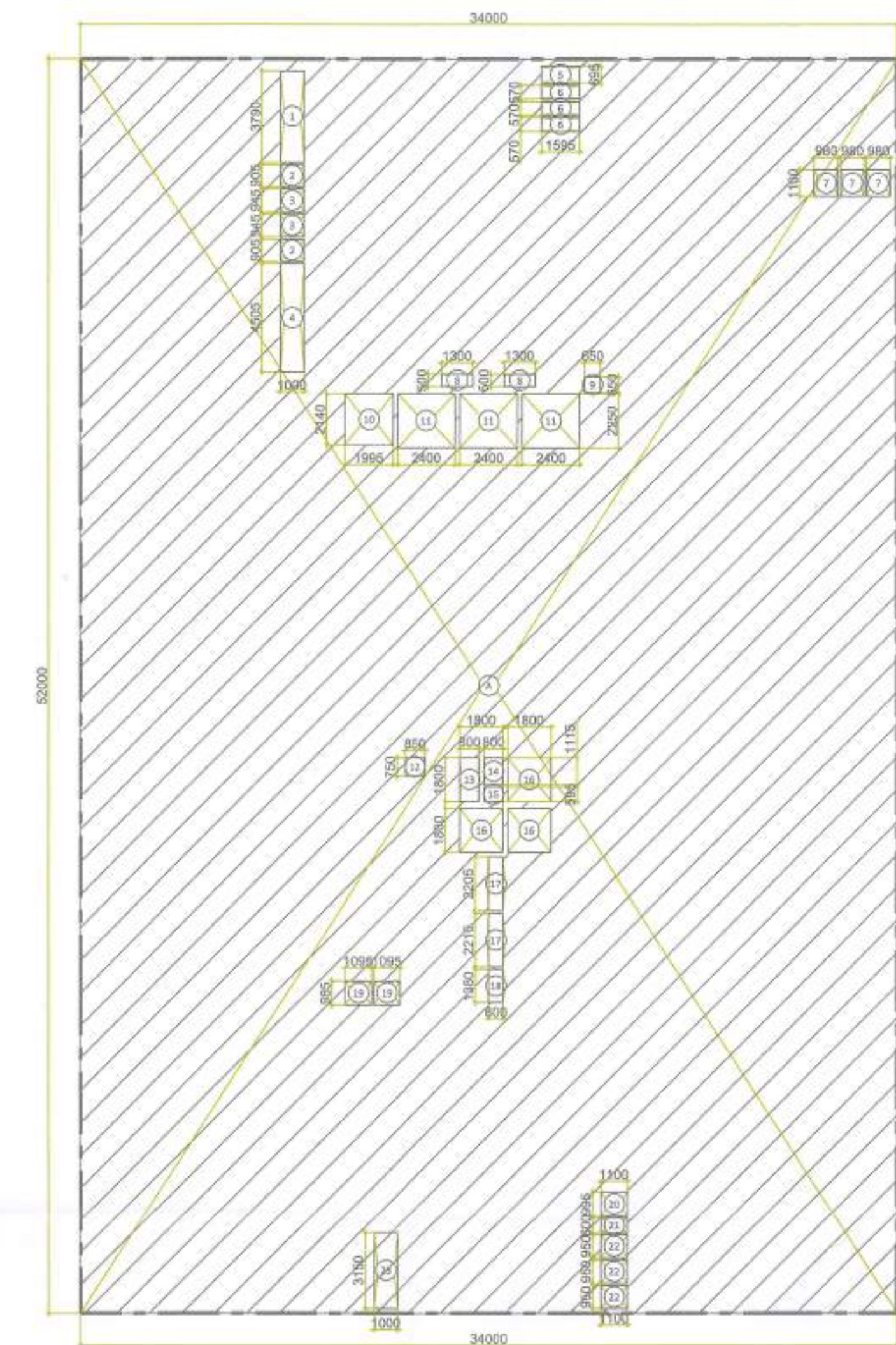


**BASEMENT 1
SCALE 1: 150**



**BUILTUP AREA DIAGRAM
SCALE 1:200**

BASEMENT 1 BUILT UP AREA CALCULATION				
ADDITION				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
A	34000	52000	1	1768.00
TOTAL AREA (A)				1768.00
SUBTRACTIONS				
AREA (RECTANGLE)				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
1	1000	3700	1	3.79
2	1000	905	2	1.81
3	1000	945	2	1.89
4	1000	4505	1	4.51
5	1595	695	1	1.11
6	1595	570	3	2.73
7	980	1100	3	3.23
8	1380	500	2	1.30
9	650	650	1	0.42
10	1995	2140	1	4.27
11	2400	2250	3	16.20
12	850	750	1	0.64
13	800	1800	1	1.44
14	800	1115	1	0.89
15	800	595	3	1.43
16	1800	1800	2	6.48
17	600	2205	2	2.65
18	600	1380	1	0.83
19	1095	985	2	2.16
20	1100	995	1	1.09
21	3100	600	1	0.96
22	1100	650	3	2.15
23	1000	3150	1	3.15
TOTAL AREA (B)				64.81
BUILT UP AREA BASEMENT 1 [A - B = C]				1703.19



**SERVICE AREA DIAGRAM
SCALE 1:200**

PARKING					
A.	ON SURFACE		2 NO.5 HANDICAP PARKING		
B.	IN BASEMENT		125 CARS		
BASEMENT LVL	BUILT UP	SERVICES	AREA FOR PARKING	ACTUAL NO. OF CARS	
				PARKING SLOTS	TOTAL NO.
BASEMENT 1	1703.19	588.19	1115.00	19 DOUBLE STACK	38
BASEMENT 2	1560.27	551.19	1008.94	19 DOUBLE STACK	38
BASEMENT 3	1725.65	541.31	1184.34	22 DOUBLE STACK	44
				SSINGLE CARS	5
TOTAL	4989.11	1680.69	3308.28		125
TOTAL (A+B)					127

LEGEND FOR EQUIPMENTS	
F1	DIESEL ENGINE MAIN PUMP CAP=2050 LPM/180M HEAD (LOWER ZONE), 140M HEAD (MIDDLE ZONE) & 150M HEAD (HIGHER ZONE)
F2	MAIN ELECTRIC FIRE HYDRANT PUMP CAP=2050 LPM/180M HEAD (LOWER ZONE), 140M HEAD (MIDDLE ZONE) & 150M HEAD (HIGHER ZONE)
F3	FIRE HYDRANT JOCKEY PUMP CAP=180 LPM/180M HEAD (LOWER ZONE), 140M HEAD (MIDDLE ZONE) & 150M HEAD (HIGHER ZONE)
F4	MAIN ELECTRIC SPRINKLER PUMP CAP=2050 LPM/180M HEAD (LOWER ZONE), 140M HEAD (MIDDLE ZONE) & 150M HEAD (HIGHER ZONE)
F5	SPRINKLER JOCKEY PUMP CAP=180 LPM/180M HEAD (LOWER ZONE), 140M HEAD (MIDDLE ZONE) & 150M HEAD (HIGHER ZONE)
F6	FIRE CURTAIN SYSTEM PUMP CAP=1600 LPM/180M HEAD
AV	AIR VESSEL

LEGEND FOR FIRE FIGHTING	
①	1500 M.S FIRE WET RISER PIPE FOR GROUND TO 10th FLOOR
②	1500 M.S SPRINKLER PIPE FOR FOR GROUND TO 10th FLOOR
③	800 M.S SPRINKLER DRAIN PIPE FOR 11th TO 22th FLOOR
④	1500 M.S FIRE WET RISER PIPE FOR 11th TO 22th FLOOR
⑤	1500 M.S SPRINKLER PIPE FOR 23th & 24th FLOOR
⑥	1500 M.S FIRE WET RISER PIPE FOR 23th & 24th FLOOR
⑦	1500 M.S SPRINKLER PIPE FOR 23th & 24th FLOOR
⑧	UP-RIGHT TYPE SPRINKLER
⑨	SEMI CONCEALED TYPE SPRINKLER
⑩	EXTENDED SIDE WALL SPRINKLER
⑪	WATER CURTAIN NOZZLE
⑫	DELUGE VALVE
⑬	FLOW SWITCH
⑭	BUTTERFLY VALVE
⑮	MILD STEEL
⑯	M.S SPRINKLER BRANCH PIPE
⑰	M.S SPRINKLER HEADER PIPE
⑱	1500 M.S WET RISER FIRE PIPE

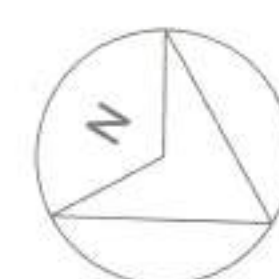
SCHEDULE FOR SPRINKLER PIPE DIA		
S. No.	No. OF SPRINKLER	DIA OF SPRINKLER PIPE
1	0 TO 1	250
2	1 TO 2	250
3	3	320
4	4 TO 5	400
5	6 TO 10	500
6	11 TO 18	650
7	19 TO 40	800
8	41 TO 100	1000
9	101 TO ABOVE	1500

LEGEND FOR FIRE HOSE CABINET	
①	ONE NO. FIRE HOSE CABINET
②	ONE NO. 65mm SINGLE LANDING VALVE
③	ONE NO. FIRE HOSE REEL WITH DRUM 20mm 36.9M LONG
④	TWO NOS. 65mm x 10M LONG RRL HOSE PIPES
⑤	ONE NO. BRANCH PIPE
⑥	ONE NO. FIRE HOSE KIT
⑦	ONE NO. 4.5 kg. CO2 TYPE FIRE EXTINGUISHERS
⑧	ONE NO. 6.0 kg. ABC POWDER TYPE FIRE EXTINGUISHERS

Authority Signatory

It is Certified that these drawing are as per original drawings approved by HSVP Haryana vide memo Dtd 22/08/23
2002/EDC/UE029/FBPA/000000122
Architect Sign

ARK CONSULTANTS
(Fire Fighting Consultants)



OWNER SIGN

ARCHITECT SIGN

Clients:

ESSEL INFRA LLP

Project Title :

COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE
SECTOR -43, GURUGRAM .

Drawing Title :

SUBMISSION DRAWINGS

BASEMENT 1 FIRE FIGHTING PLAN (REVISED 2015)

Scale :

1 Gurugram

Date :

SEP-2023

Drawn By :

Checked By :

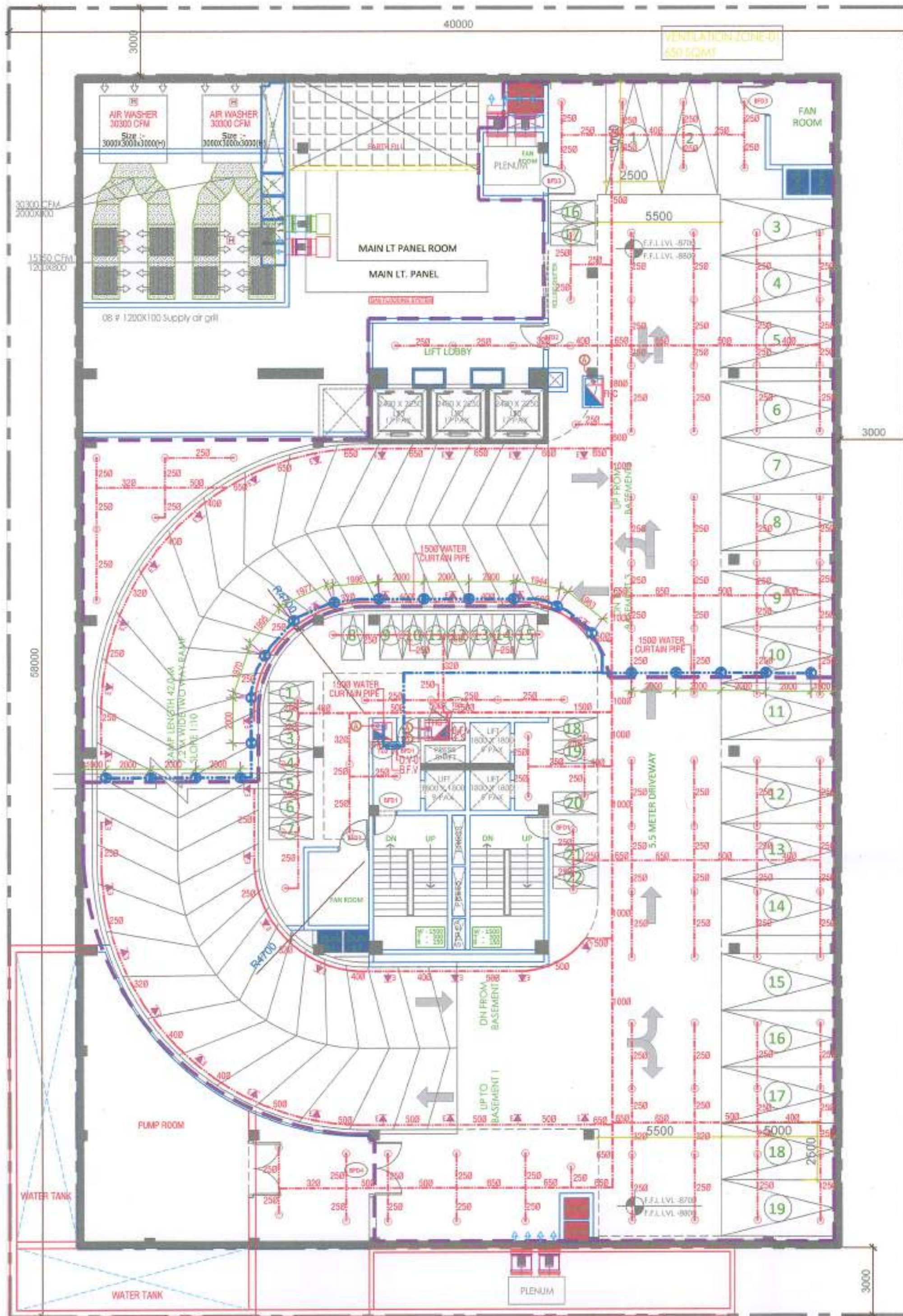
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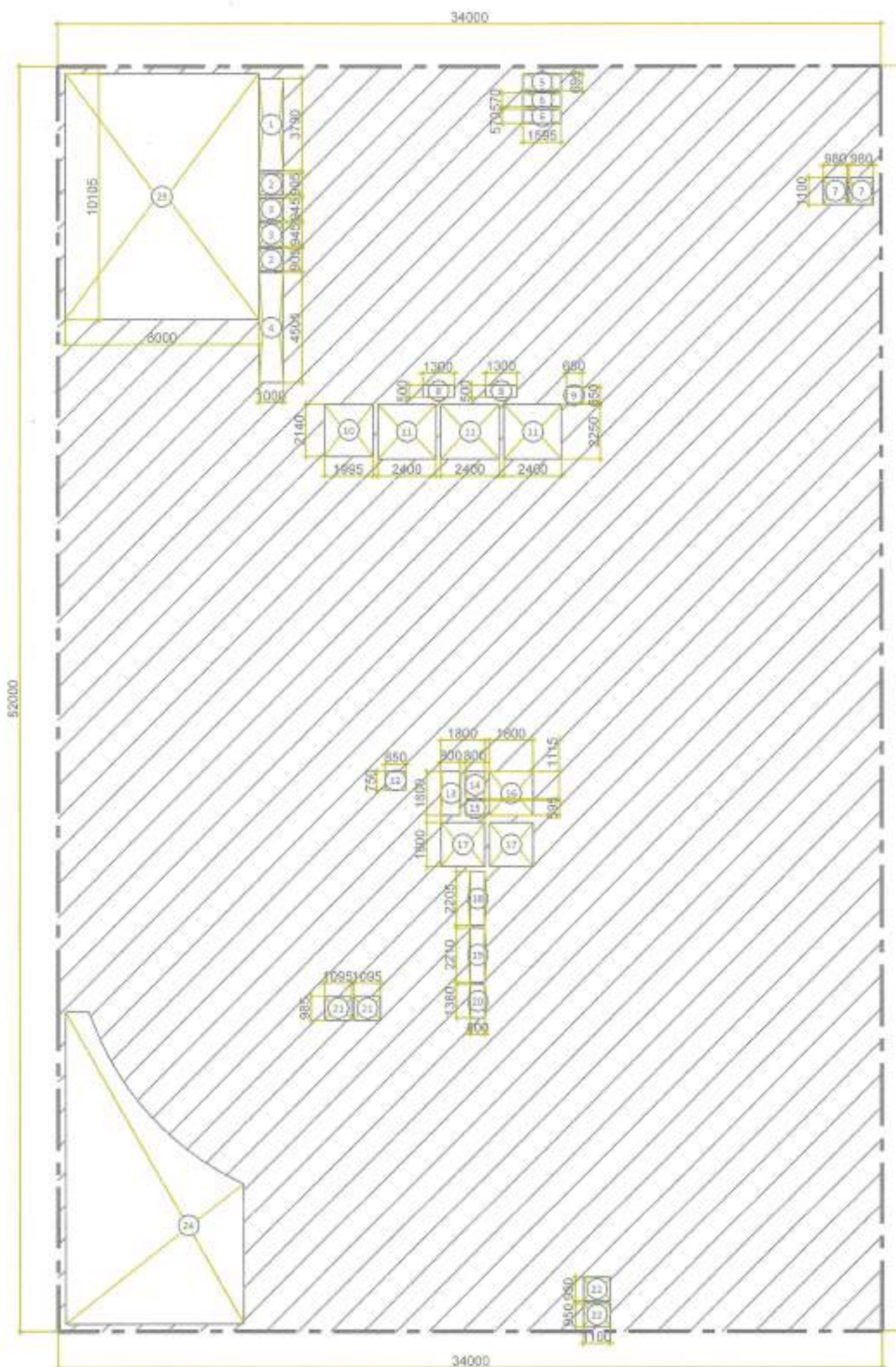
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14/10/2023

1165



BASEMENT 2
SCALE 1: 150



BUILTUP AREA DIAGRAM
SCALE 1:200

BASEMENT 2 BUILTUP AREA CALCULATION				
ADDITION				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
A	34000	52000	1	1768.00
TOTAL AREA (A)				1768.00
SUBTRACTIONS				
AREA (RECTANGLE)				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
1	1000	3790	1	3.79
2	1000	905	2	1.81
3	1000	945	2	1.89
4	1000	4505	1	4.51
5	1595	695	1	1.11
6	1595	570	2	1.82
7	1100	980	2	2.16
8	1300	500	2	1.30
9	650	650	1	0.42
10	1995	2140	1	4.27
11	2400	2250	3	16.20
12	850	750	1	0.64
13	800	1800	1	1.44
14	800	1115	1	0.89
15	800	595	3	1.43
16	1800	1800	1	3.24
17	1800	1800	2	6.48
18	600	2205	1	1.32
19	600	2210	1	1.33
20	600	1380	1	0.83
21	1095	985	2	2.16
22	1100	950	2	2.09
23	8000	10105	1	81.84
24	AS SHAPE			65.78
TOTAL AREA (B)				207.73
BUILTUP AREA BASEMENT 2 (A - B + C)				1560.27

BASEMENT 2 SERVICE AREA CALCULATION				
ADDITION				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
A	8000	10500	1	84.00
B	AS SHAPE			273.82
C	AS SHAPE			13.96
D	AS SHAPE			14.84
E	AS SHAPE			50.52
F	AS SHAPE			12.89
G	AS SHAPE			98.20
H	1500	2200	1	3.30
TOTAL SERVICE AREA (D)				551.33

LEGEND FOR EQUIPMENTS	
F1	DIESEL ENGINE MAIN PUMP CAP=2550 LPM(BRIM HEAD, LOWER ZONE), 140M HEAD(MIDDLE ZONE) & 155M HEAD(HIGHER ZONE)
F2	MAIN ELECTRIC FIRE HYDRANT PUMP CAP=2550 LPM(BRIM HEAD, LOWER ZONE), 140M HEAD(MIDDLE ZONE) & 155M HEAD(HIGHER ZONE)
F3	FIRE HYDRANT JOCKEY PUMP CAP=1180 LPM(BRIM HEAD, LOWER ZONE), 140M HEAD(MIDDLE ZONE) & 155M HEAD(HIGHER ZONE)
F4	MAIN ELECTRIC SPRINKLER PUMP CAP=2550 LPM(BRIM HEAD, LOWER ZONE), 140M HEAD(MIDDLE ZONE) & 155M HEAD(HIGHER ZONE)
F5	SPRINKLER JOCKEY PUMP CAP=1180 LPM(BRIM HEAD, LOWER ZONE), 140M HEAD(MIDDLE ZONE) & 155M HEAD(HIGHER ZONE)
F6	FIRE CURTAIN SYSTEM PUMP CAP=1800 LPM(BRIM HEAD)
AV	AIR VESSEL

LEGEND FOR FIRE FIGHTING	
1	1500 M.S FIRE WET RISER PIPE FOR GROUND TO 10th FLOOR
2	1500 M.S SPRINKLER PIPE FOR FOR GROUND TO 10th FLOOR
3	800 M.S SPRINKLER DRAIN PIPE FOR 11th TO 22nd FLOOR
4	1500 M.S FIRE WET RISER PIPE FOR 11th TO 22nd FLOOR
5	1500 M.S SPRINKLER PIPE FOR 11th TO 22nd FLOOR
6	1500 M.S FIRE WET RISER PIPE FOR 23rd & 24th FLOOR
7	1500 M.S SPRINKLER PIPE FOR 23rd & 24th FLOOR
8	UP-RIGHT TYPE SPRINKLER
9	SEMI CONCEALED TYPE SPRINKLER
10	EXTENDED SIDE WALL SPRINKLER
11	WATER CURTAIN NOZZLE
12	DELUGE VALVE
13	FLOW SWITCH
14	BUTTER FLY VALVE
15	M.S. MILD STEEL
16	M.S SPRINKLER BRANCH PIPE
17	M.S SPRINKLER HEADER PIPE
18	1500 M.S WET RISER FIRE PIPE

SCHEDULE FOR SPRINKLER PIPE DIA		
S. No.	No. OF SPRINKLER	DIA OF SPRINKLER PIPE
1	8 TO 1	250
2	1 TO 2	250
3	3	300
4	4 TO 5	400
5	6 TO 10	500
6	11 TO 18	650
7	19 TO 40	800
8	41 TO 100	1000
9	101 TO ABOVE	1300

LEGEND FOR FIRE HOSE CABINET	
FHC	FIRE HOSE CABINET COMPRISING OF
1	ONE NO. FIRE HOSE CABINET
2	ONE NO. 63mm Ø SINGLE LANDING VALVE
3	ONE NO. FIRE HOSE REEL WITH DRUM Ømm x 38.1mm LONG
4	TWO NOS. 63mm Ø x 15M. LONG RRL HOSE PIPES
5	ONE NO. BRANCH PIPE
6	ONE NO. FIRE MENS VIE
7	ONE NO. 4.5 kg. CO2 TYPE FIRE EXTINGUISHERS
8	ONE NO. 6.8kg. ABC POWDER TYPE FIRE EXTINGUISHERS

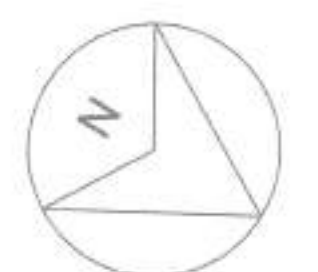
SERVICE AREA DIAGRAM
SCALE 1:200

ON SURFACE		PARKING	
IN BASEMENT		2 NO.5 HANDICAP PARKING	
		125 CARS	
BASEMENT LVL	BUILTUP	SERVICES	ACTUAL NO. OF CARS
		AREA FOR PARKING	PARKING SLOTS TOTAL NO.
BASEMENT 1	1703.19	588.19	1115.00 19 DOUBLE STACK 38
BASEMENT 2	1560.27	551.19	1008.94 19 DOUBLE STACK 38
BASEMENT 3	1725.65	541.31	1184.34 22 DOUBLE STACK 44
TOTAL	4989.11	1680.69	3308.28 55 SINGLE CARS 5
TOTAL (A+B)			127

Authority Signatory

ARK CONSULTANTS
Fire Fighting Consultants

It is Certified that these drawing are as per original drawings approved by HSNP Haryana Video memo No. 22/108/23
Recd./Enr./DESR/FB/PLA/100000/122
Architect Sign



OWNER SIGN

ARCHITECT SIGN

Clients:

ESSEL INFRA LLP

Project Title :

COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE SECTOR -43, GURUGRAM

Drawing Title :

SUBMISSION DRAWINGS

BASEMENT 2 FLOOR PLAN (FIRE FIGHTING)

as per N.B.C. Part IV, revised 2013

Scale :

Date :

Drawn By :

Checked By :

Sheet Size : A1

CP_BA_FF-02

Fire Fighting Schedule
Video letter
Date: 14/12/2023
Deputy Director

FIRST FLOOR PLAN (1:150)

FIRST FLOOR SANITARY FIXTURE CALCULATION

TOTAL COVERED AREA : 1148.54 SQ.M.

TOTAL POPULATION @ 6 SQ.M/PERSON : 191

(REFER Clause 4.3 & 4.4.2.1, Table 3 OCCUPANT LOAD (AS PER NBC 2016-PART-08 BUILDING SERVICES))

VISITOR'S POPULATION @ 90% OF TOTAL POPULATION : 172

MALE @ 1/2 OF VISITOR'S POPULATION : 86

FEMALE @ 1/2 OF VISITOR'S POPULATION : 86

STAFF POPULATION @ 10% OF TOTAL POPULATION : 19

MALE @ 1/2 OF STAFF POPULATION : 10

FEMALE @ 1/2 OF STAFF POPULATION : 10

SANITARY FIXTURE CALCULATION

FIXTURE	VISITOR		STAFF	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSET	2	2	2	2
WASH BASIN	2	2	2	2
URINAL	2	2	2	2

(REFER Clause 4.2.5.1, Table 15 SHOPPING MALLS & RETAIL BUILDINGS (AS PER NBC 2016-PART-08 BUILDING SERVICES))

BUILDING EXTENT BELOW

FAR DIAGRAM (1:200)

FAR

S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	1	52000	34000	1768.00
TOTAL AREA(A)				1768.00
SUBTRACTION				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	1	13000	8250	107.25
2	1	10005	1825	18.26
3	1	3000	10755	32.27
4	1	3000	1800	5.40
5	1	8000	10730	85.84
6	1	2000	885	1.77
7	1	4000	11005	44.02
8	1	4000	7995	31.98
9	1	4000	10995	43.98
10	1	4000	10995	43.98
11	3	1931416		5.79
12	1	26000	2000	52.00
13	1	25800	2000	51.60
14	2	6000	3300	39.60
15	1	6000	600	3.60
16	3	1800	1800	9.72
17	3	2250	2400	16.20
18	2	850	800	1.36
19	1	880	800	0.70
20	2	750	2600	3.90
21	1	2400	900	2.16
22	1	1745	500	0.87
23	1	2400	500	1.20
24	1	2000	11005	22.01
25	1	2000	7995	15.99
26	1	2000	10995	21.99
TOTAL SUBTRACTION (B)				619.46
C. FAR (A-B)				1148.54

AREA FREE FROM FAR

S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
14	2	6000	3300	39.60
TOTAL D				39.60
TOTAL BUILT UP (C + D)				1188.14

CARPET AREA (1:200)

CARPET AREA, FIRST FLOOR

S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	1	5255	8600	45.19
2	1	5255	8600	45.19
3	1	5800	8600	50.74
4	1	8590	8600	73.87
5	1	7600	2840	21.56
6	1	47557533		47.56
7	1	6600	5375	35.48
8	1	6600	9350	61.71
9	1	6600	5405	35.67
10	1	32411102		32.41
11	1	8510	8600	55.99
12	1	2065	6490	13.40
13	1	8550	6490	55.49
14	1	8075	8600	69.45
15	1	4250	10610	45.09
16	1	105192587		105.19
CARPET AREA				794.02

FIRST FLOOR

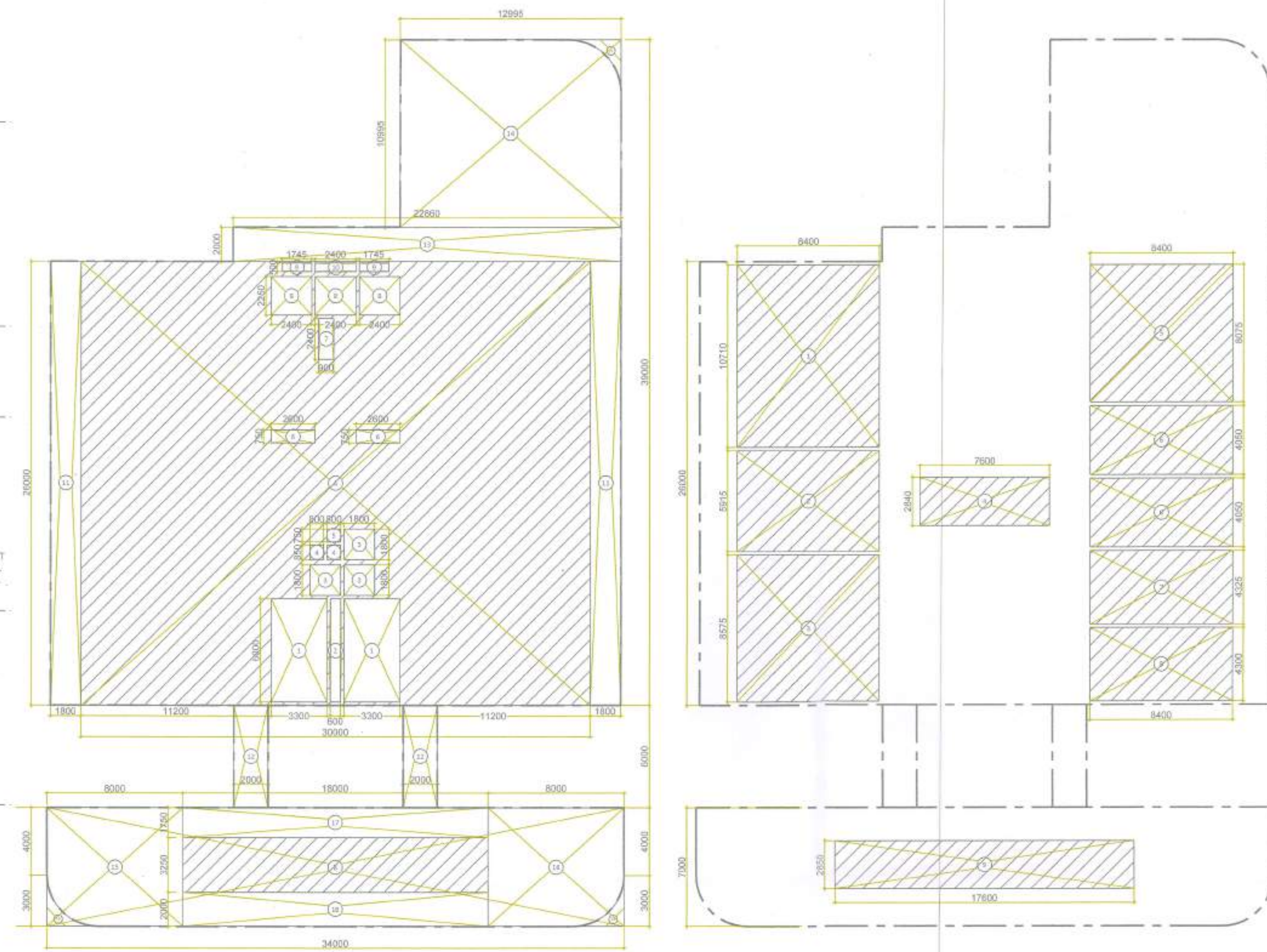
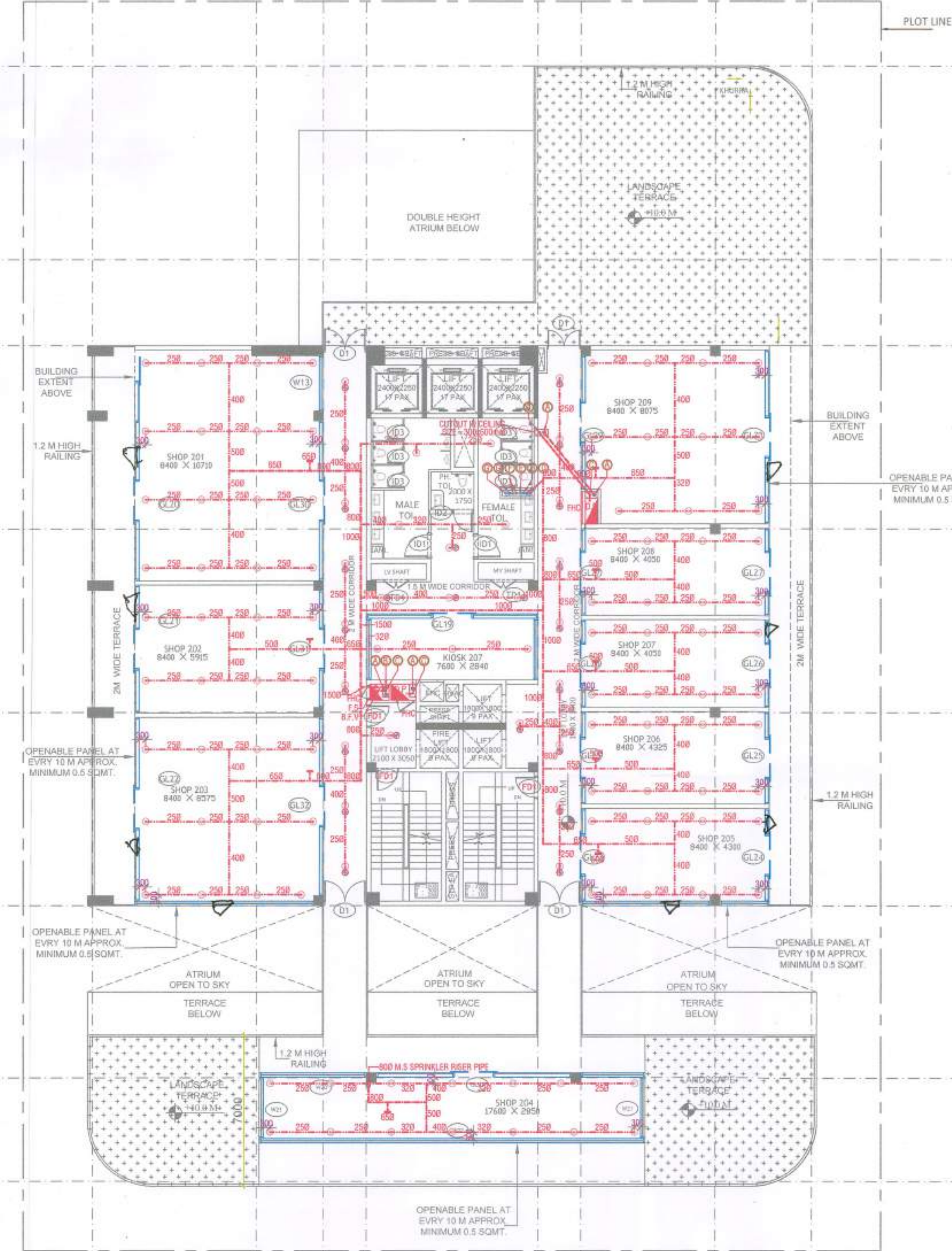
SL.NO.	TAG	Width	Height	REMARKS
INTERNAL DOOR SCHEDULE				
1	101	1200	2450	Tailor
2	102	1050	2450	H.Tail.
3	103	750	2450	Tailor
FIRE DOOR SCHEDULE				
1	FD1	1300	2450	Staircase/Lift lobby
SERVICE DOOR SCHEDULE				
1	101	1150	2450	SERVICE
2	102	800	2450	THC SERVICE
3	103	650	2450	THC SERVICE
GLAZING DOOR SCHEDULE				
1	GL1	5255	3550/B.O.B	SHOP 110, SHOP 111
2	GL2	5915	3550/B.O.B	SHOP 112
3	GL3	17135	3550/B.O.B	SHOP 113
4	GL4	5260	3550/B.O.B	SHOP 101
5	GL5	5400	3550/B.O.B	SHOP 102
6	GL6	6325	3550/B.O.B	SHOP 103
7	GL7	5435	3550/B.O.B	SHOP 104
8	GL8	6920	3550/B.O.B	SHOP 105
9	GL9	11060	3550/B.O.B	SHOP 106
10	GL10	8540	3550/B.O.B	SHOP 107
11	GL11	19775	3550/B.O.B	SHOP 108
12	GL12	3000	3550/B.O.B	SHOP 109
13	GL13	2575	3550/B.O.B	SHOP 110
14	GL14	5415	3550/B.O.B	SHOP 111
15	GL15	8325	3550/B.O.B	SHOP 112
16	GL16	16745	3550/B.O.B	SHOP 105
17	GL17	8550	3550/B.O.B	SHOP 107
18	GL18	7825	3550/B.O.B	SHOP 108
19	GL19	11680	3550/B.O.B	SHOP 109
20	GL20	11680	3550/B.O.B	SHOP 110
WINDOW SCHEDULE				
1	W1	1800	3550/B.O.B	SHOP 101, SHOP 105
2	W2	5235	3550/B.O.B	SHOP 101, SHOP 105
3	W3	4200	3550/B.O.B	SHOP 101
4	W4	4900	3550/B.O.B	SHOP 102
5	W5	5235	3550/B.O.B	SHOP 103
6	W6	5385	3550/B.O.B	SHOP 104
7	W7	3935	3550/B.O.B	SHOP 105
8	W8	3935	3550/B.O.B	SHOP 109
9	W9	5100	3550/B.O.B	SHOP 109
10	W10	4510	3550/B.O.B	SHOP 109
11	W11	3000	3550/B.O.B	SHOP 108, SHOP 109
12	W12	5980	3550/B.O.B	SHOP 110

Authority Signatory

It is Certified that these drawings are as per original drawings approved by HSPV Haryana Video memo No. 20082/E0018/UE029/FB/PLA/0000000122 dated 22/06/23

LEGEND FOR FIRE FIGHTING

1	1500 M.S. FIRE WET RISER PIPE FOR GROUND TO 10th FLOOR
2	1500 M.S. SPRINKLER PIPE FOR GROUND TO 10th FLOOR
3	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR GROUND TO 10th FLOOR
4	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 11th TO 20th FLOOR
5	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 21st TO 28th FLOOR
6	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 29th TO 38th FLOOR
7	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 39th TO 48th FLOOR
8	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 49th TO 58th FLOOR
9	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 59th TO 68th FLOOR
10	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 69th TO 78th FLOOR
11	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 79th TO 88th FLOOR
12	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 89th TO 98th FLOOR
13	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 99th TO 108th FLOOR
14	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 109th TO 118th FLOOR
15	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 119th TO 128th FLOOR
16	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 129th TO 138th FLOOR
17	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 139th TO 148th FLOOR
18	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 149th TO 158th FLOOR
19	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 159th TO 168th FLOOR
20	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 169th TO 178th FLOOR
21	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 179th TO 188th FLOOR
22	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 189th TO 198th FLOOR
23	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 199th TO 208th FLOOR
24	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 209th TO 218th FLOOR
25	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 219th TO 228th FLOOR
26	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 229th TO 238th FLOOR
27	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 239th TO 248th FLOOR
28	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 249th TO 258th FLOOR
29	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 259th TO 268th FLOOR
30	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 269th TO 278th FLOOR
31	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 279th TO 288th FLOOR
32	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 289th TO 298th FLOOR
33	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 299th TO 308th FLOOR
34	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 309th TO 318th FLOOR
35	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 319th TO 328th FLOOR
36	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 329th TO 338th FLOOR
37	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 339th TO 348th FLOOR
38	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 349th TO 358th FLOOR
39	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 359th TO 368th FLOOR
40	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 369th TO 378th FLOOR
41	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 379th TO 388th FLOOR
42	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 389th TO 398th FLOOR
43	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 399th TO 408th FLOOR
44	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 409th TO 418th FLOOR
45	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 419th TO 428th FLOOR
46	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 429th TO 438th FLOOR
47	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 439th TO 448th FLOOR
48	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 449th TO 458th FLOOR
49	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 459th TO 468th FLOOR
50	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 469th TO 478th FLOOR
51	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 479th TO 488th FLOOR
52	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 489th TO 498th FLOOR
53	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 499th TO 508th FLOOR
54	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 509th TO 518th FLOOR
55	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 519th TO 528th FLOOR
56	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 529th TO 538th FLOOR
57	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 539th TO 548th FLOOR
58	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 549th TO 558th FLOOR
59	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 559th TO 568th FLOOR
60	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 569th TO 578th FLOOR
61	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 579th TO 588th FLOOR
62	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 589th TO 598th FLOOR
63	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 599th TO 608th FLOOR
64	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 609th TO 618th FLOOR
65	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 619th TO 628th FLOOR
66	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 629th TO 638th FLOOR
67	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 639th TO 648th FLOOR
68	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 649th TO 658th FLOOR
69	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 659th TO 668th FLOOR
70	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 669th TO 678th FLOOR
71	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 679th TO 688th FLOOR
72	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 689th TO 698th FLOOR
73	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 699th TO 708th FLOOR
74	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 709th TO 718th FLOOR
75	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 719th TO 728th FLOOR
76	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 729th TO 738th FLOOR
77	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 739th TO 748th FLOOR
78	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 749th TO 758th FLOOR
79	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 759th TO 768th FLOOR
80	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 769th TO 778th FLOOR
81	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 779th TO 788th FLOOR
82	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 789th TO 798th FLOOR
83	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 799th TO 808th FLOOR
84	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 809th TO 818th FLOOR
85	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 819th TO 828th FLOOR
86	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 829th TO 838th FLOOR
87	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 839th TO 848th FLOOR
88	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 849th TO 858th FLOOR
89	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 859th TO 868th FLOOR
90	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 869th TO 878th FLOOR
91	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 879th TO 888th FLOOR
92	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 889th TO 898th FLOOR
93	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 899th TO 908th FLOOR
94	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 909th TO 918th FLOOR
95	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 919th TO 928th FLOOR
96	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 929th TO 938th FLOOR
97	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 939th TO 948th FLOOR
98	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 949th TO 958th FLOOR
99	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 959th TO 968th FLOOR
100	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 969th TO 978th FLOOR
101	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 979th TO 988th FLOOR
102	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 989th TO 998th FLOOR
103	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 999th TO 1008th FLOOR
104	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1009th TO 1018th FLOOR
105	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1019th TO 1028th FLOOR
106	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1029th TO 1038th FLOOR
107	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1039th TO 1048th FLOOR
108	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1049th TO 1058th FLOOR
109	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1059th TO 1068th FLOOR
110	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1069th TO 1078th FLOOR
111	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1079th TO 1088th FLOOR
112	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1089th TO 1098th FLOOR
113	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1099th TO 1108th FLOOR
114	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1109th TO 1118th FLOOR
115	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1119th TO 1128th FLOOR
116	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1129th TO 1138th FLOOR
117	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1139th TO 1148th FLOOR
118	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR 1149th TO 1158th FLOOR
119	1500 M.S. SPRINKLER STAND BY RISER PIPE FOR



FIRST FLOOR SANITARY FIXTURE CALCULATION

TOTAL COVERED AREA	:	728.52 SQ.M.
TOTAL POPULATION @ 6 SQ.M/PERSON	:	121
(REFER Clause 4.3 & 4.4.2.1, Table 3 OCCUPANT LOAD (AS PER NBC 2016-PART-08 BUILDING SERVICES))		
VISITOR'S POPULATION @80% OF TOTAL POPULATION	:	109
MALE @1/2 OF VISITOR'S POPULATION	:	55
FEMALE @1/2 OF VISITOR'S POPULATION	:	55
STAFF POPULATION @10% OF TOTAL POPULATION	:	12
MALE @1/2 OF STAFF POPULATION	:	6
FEMALE @1/2 OF STAFF POPULATION	:	6

SANITARY FIXTURE CALCULATION

SANTARY FIXTURE CALCULATION								
	VISITOR				STAFF			
FIXTURE	REQUIRED		PROVIDED		REQUIRED		PROVIDED	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
WATER C	2	2	2	2	1	1	1	1
WASH BA	2	2	2	2	1	1	1	1
URINAL	2	-	2		0	-	1	
(REFER Clause 4.2.5.1, Table 15 SHOPPING MALLS & RETAIL BUILDINGS (AS PER NBC 2016-PART-08 BUILDING SERVICES))								

FAR				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION				
A	1	26000	30000	780.00
B	1	7000	34000	238.00
TOTAL AREA(A)				1018.00
SUBTRACTION				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	2	6000	3300	39.60
2	1	6000	600	3.60
3	3	1800	1800	9.72
4	2	850	800	1.36
5	1	750	800	0.60
6	2	750	2600	3.90
7	1	2400	900	2.16
8	3	2250	2400	16.20
9	2	500	1745	1.75
10	1	500	2400	1.20
15	1	7000	8000	56.00
16	1	7000	8000	56.00
17	3	1750	19000	31.50
18	1	2000	18000	36.00
TOTAL SUBTRACTION (B)				259.59
C. FAR (A-B)				758.42
AREA FREE FROM FAR				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION (X)				
1	2	6000	3300	39.60
11	2	26000	2000	104.00
12	2	6000	2000	24.00
TOTAL ADDITION				167.60
D. TOTAL NON FAR AREA (X-Y)				167.60
TOTAL BUILT UP (C + D)				926.02

CARPET AREA				
S.NO.	NO.#	Length(in mm)	Breadth(in mm)	Area(in sqm.)
1	1	10716	8400	89.96
2	1	9915	8400	49.89
3	1	8575	8400	72.03
4	1	2840	7600	21.58
5	1	9075	8400	67.83
6	2	4050	8400	68.04
7	1	4325	8400	36.33
8	1	4300	8400	36.12
9	1	2850	17600	50.16
CARPET AREA				491.74

		SECOND FLOOR		
SL.NO.	TAG.	Rough Opening		REMARKS
		Width	Height	
INTERNAL DOOR SCHEDULE				
1	I01	1200	2450	Toilet
3	I03	750	2450	Toilet
FIRE DOOR SCHEDULE				
1	FD1	1300	2450	Staircase/Lift lobby
SERVICE DOOR SCHEDULE				
1	T01	2150	2450	SERVICE
2	T02	800	2450	FHC. SERVICE
3	T03	650	2450	FHC. SERVICE
GLAZING DOOR SCHEDULE				
1	GL20	10725	3350/B.O.B	RESTAURANT 201
2	GL21	5910	3350/B.O.B	RESTAURANT 202
3	GL22	16925	3350/B.O.B	RESTAURANT 203
4	GL23	11950	3350/B.O.B	RESTAURANT 204
5	GL24	6590	3350/B.O.B	RESTAURANT 205
6	GL25	4225	3350/B.O.B	RESTAURANT 206
7	GL26	4050	3350/B.O.B	RESTAURANT 207
8	GL27	4025	3350/B.O.B	RESTAURANT 208
9	GL28	8075	3350/B.O.B	RESTAURANT 209
10	GL29	7825	3350/B.O.B	RESTAURANT 209
11	GL30	2495	3350/B.O.B	RESTAURANT 210
12	GL31	5415	3350/B.O.B	RESTAURANT 212
13	GL32	8325	3350/B.O.B	RESTAURANT 213
14	GL33	9100	3350/B.O.B	RESTAURANT 204
15	GL34	5101	3350/B.O.B	RESTAURANT 205
WINDOW SCHEDULE				
1	W13	2575	3350/B.O.B	SHOP 101, SHOP 105
2	W20	5000	3350/B.O.B	RESTAURANT 204
3	W21	2850	3350/B.O.B	RESTAURANT 204
4	W22	37600	3350/B.O.B	RESTAURANT 204
EXTERNAL DOOR SCHEDULE				

Authority Signatory

It is Certified that these drawing are as per original drawings approved by HSVP Haryana Vide memo No. 22/06/23 Dtd. 22/06/23

20002/EO016/VEO24/EBPLA/00000000/2 Architect Sign. Owner Sign.

- [illegible]

S. No.	No. OF SPRINKLER	DIA OF SPRINKLER PIPE
1	0 TO 1	250
2	1 TO 2	250
3	3	320
4	4 TO 5	400
5	6 TO 10	500
6	11 TO 18	650
7	19 TO 40	800
8	41 TO 100	1000
9	101 TO ABOVE	1500

Architects :

OWNER SIGN _____ ARCHITECT SIGN _____

OWNER SIGN

ARCHITECT SIGN

Ar. VINEMRA G
CA/2019/114
H.No. 739/2, Patel Nagar

Clients:
ESSEL INFRA LLP

Project Title :
COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTR
SECTOR -43, GURUGRAM .

Drawing Title :
SUBMISSION DRAWINGS

SECOND FLOOR CEILING PLAN(FIRE FIGHTING)

SECOND FLOOR CEILING PLAN(FIRE FIGHTING)

Scale : 1:50	Diagram No. Gurugram
Date : AUG-2023	
Drawn By :	
Checked By :	CP_SP-FF-04
Sheet Size : A1	Fire Fighting & Safety Approved Video Issued 2023/11/5 Dated 14/10/2023 Deputy Director (Tech)

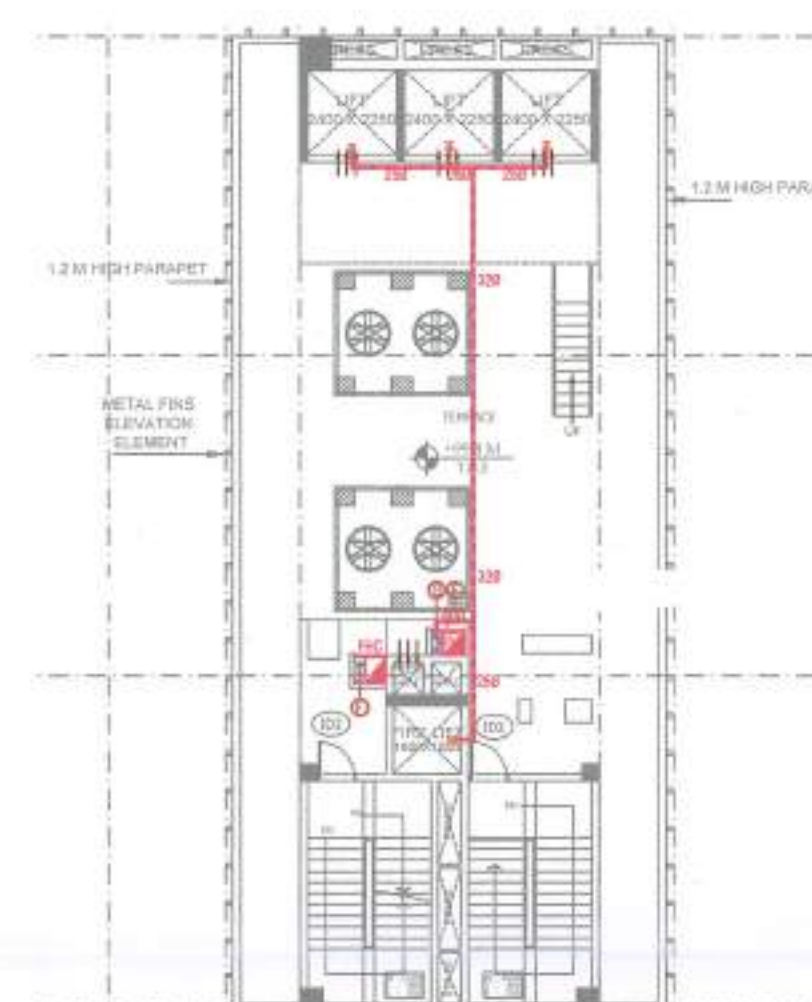
AFK CONSULTANTS
MS
(Fire Fighting Consultants)
Envirotech Design Pvt. Ltd.
New
Delhi-25
★



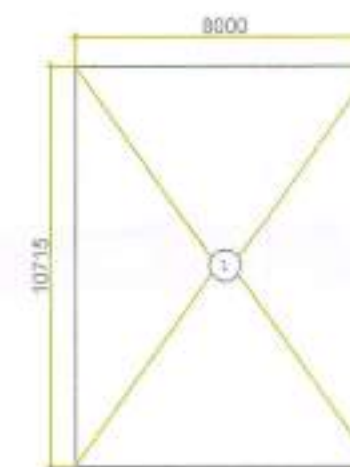
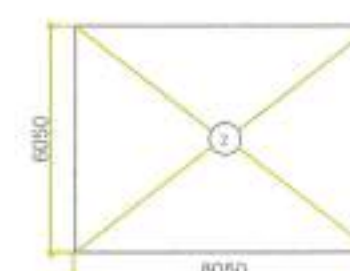
MUMTY & MACHINE ROOM
AT TERRACE PLAN
SCALE 1:150

BUILT UP AREA DIAGRAM_MUMTY & MACHINE ROOM				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION (X)				
1	1	10715	8000	85.72
2	1	6050	8050	48.70
TOTAL NON FAR				134.42

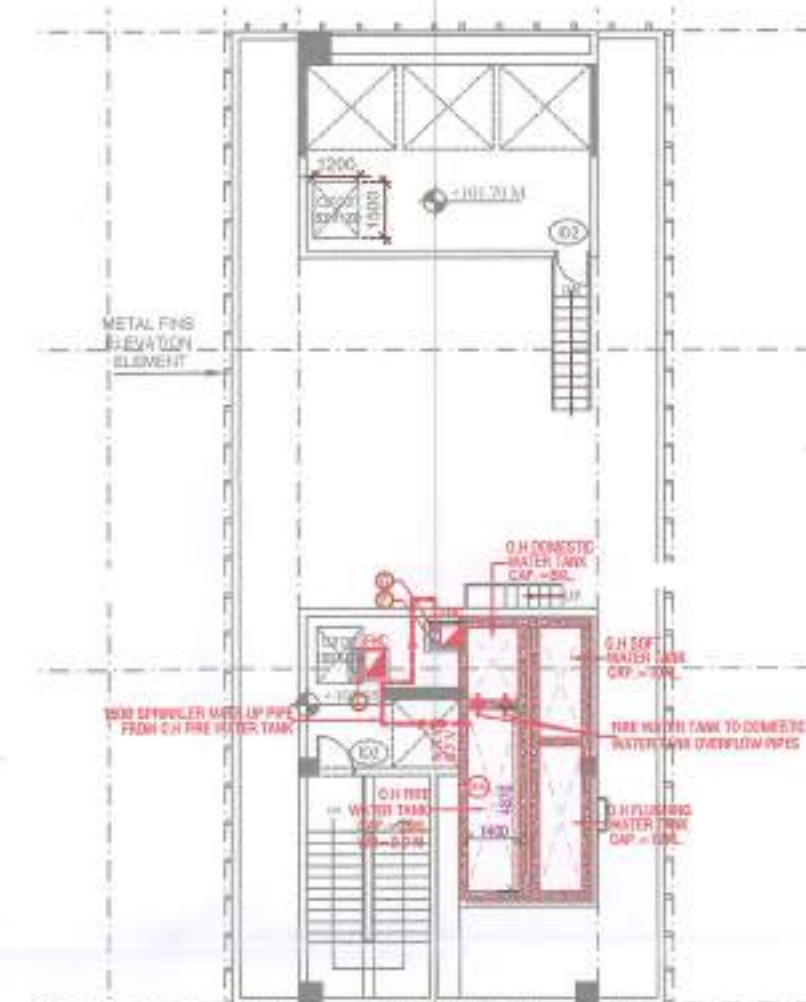
BUILT UP AREA DIAGRAM_WATER TANK				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION (X)				
1	1	10715	8000	85.72
2	1	6050	8050	48.70
TOTAL NON FAR				134.42



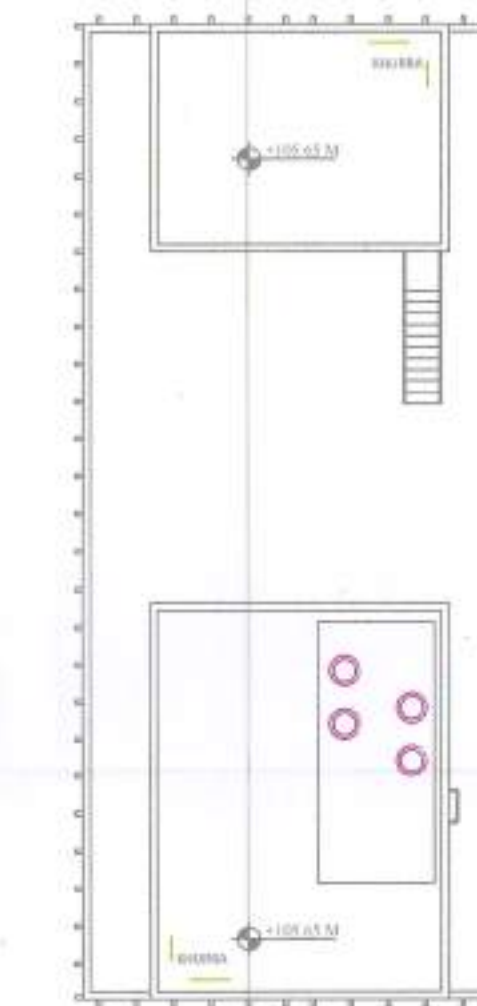
MUMTY & MACHINE ROOM
AT TERRACE PLAN
SCALE 1:200



BUILT UP AREA DIAGRAM
SCALE 1:200



WATER TANK
SCALE 1:200



ROOF PLAN
SCALE 1:200

LEGEND FOR FIRE FIGHTING	
①	1500 M.S FIRE WET RISER PIPE FOR GROUND TO 10th FLOOR
②	1500 M.S SPRINKLER PIPE FOR GROUND TO 10th FLOOR
③	1500 M.S SPRINKLER STAND BY RISER PIPE FOR GROUND TO 10th FLOOR
④	800 M.S SPRINKLER BRAN PIPE
⑤	1500 M.S FIRE WET RISER PIPE FOR 11th TO 22nd FLOOR
⑥	1500 M.S SPRINKLER PIPE FOR 11th TO 22nd FLOOR
⑦	1500 M.S SPRINKLER STAND BY RISER PIPE FOR 11th TO 22nd FLOOR
⑧	1500 M.S FIRE WET RISER PIPE FOR 23rd & 24th FLOOR
⑨	1500 M.S SPRINKLER PIPE FOR 23rd & 24th FLOOR
⑩	1500 M.S SPRINKLER STAND BY RISER PIPE FOR 23rd & 24th FLOOR
⑪	UP-RIGHT TYPE SPRINKLER
⑫	SEMI CONCEALED TYPE SPRINKLER
⑬	SIDE WALL SPRINKLER
⑭	FUTURE CONNECTION
⑮	FLOW SWITCH
⑯	BPV BUTTER FLY VALVE
⑰	M.S MILD STEEL
⑱	M.S SPRINKLER BRAN PIPE
⑲	M.S SPRINKLER HEADER PIPE
⑳	1500 M.S WET RISER FIRE PIPE

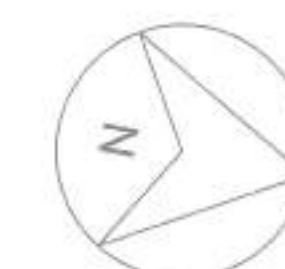
LEGEND FOR FIRE HOSE CABINET	
①	FIRE HOSE CABINET COMPRISING OF
②	ONE NO. FIRE HOSE CABINET
③	ONE NO. 53mm SINGLE LANDING VALVE
④	ONE NO. FIRE HOSE REEL WITH DRUM 30mm x 10M.M. LONG
⑤	TWO NOS. 63mm x 10M. LONG RRL HOSE PIPES
⑥	ONE NO. BRAN PIPE
⑦	ONE NO. FIRE MENS AXE
⑧	ONE NO. 4.5 Kg. 1200 TYPE FIRE EXTINGUISHERS
⑨	ONE NO. 6.0 Kg. ABC POWDER TYPE FIRE EXTINGUISHERS

S. No.	No. OF SPRINKLER	DIA OF SPRINKLER PIPE
1	0 TO 1	250
2	1 TO 2	250
3	3	320
4	4 TO 5	400
5	6 TO 10	500
6	11 TO 18	630
7	19 TO 40	800
8	41 TO 100	1000
9	101 TO ABOVE	1500



ARK CONSULTANTS
(Fire Fighting Consultants)

It is Certified that these drawing are as per original drawings approved by HSNP Haryana vide memo No. 22/08/23 dated 22/08/23
20002/EDSR/UE/24/F&P/01/0000122
Architect Sign.



Architects :

OWNER SIGN

ARCHITECT SIGN

Clients:
ESSEL INFRA LLP

Project Title :
COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE
SECTOR-43, GURUGRAM.

Drawing Title :
SUBMISSION DRAWINGS
Certified that fire Fighting Scheme is
TERRACE FLOOR FIRE FIGHTING 2016

Scale : 1:150 Drawing No.
Date : AUG-2023
Drawn By :
Checked By : Fire Fighting CP_SP-FE-14
Sheet Size : 14/10/2023
Deputy Director

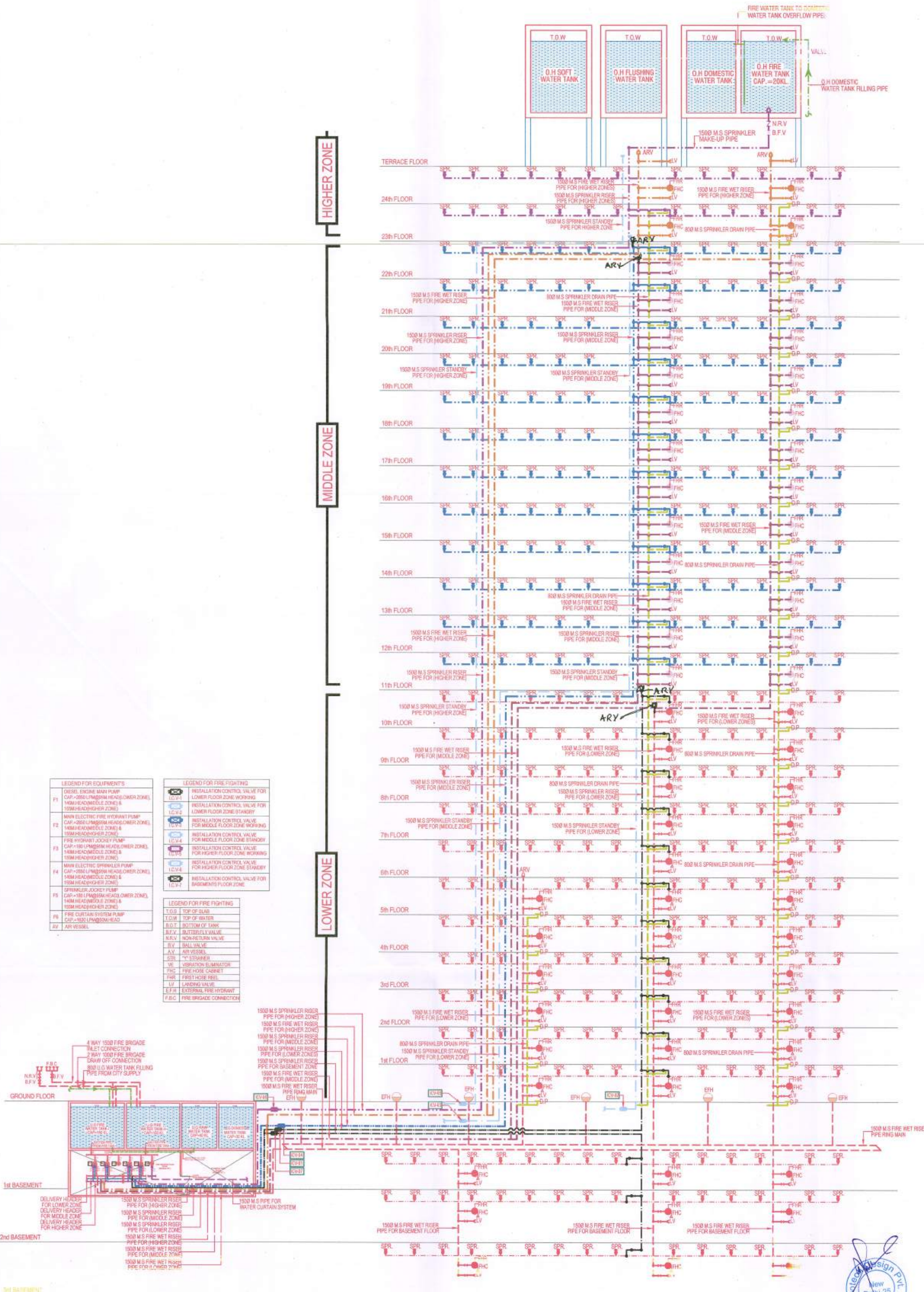
Authority Signature

3

2

LEGEND FOR EQUIPMENTS	
F1	OVERHEAD ENGINE MAIN PUMP CAP-2000 LPM/20M HEAD (LOWER ZONE) 150M HEAD (MIDDLE ZONE) & 100M HEAD (HIGHER ZONE)
F2	MAIN ELECTRIC FIRE HYDRANT PUMP CAP-2000 LPM/20M HEAD (LOWER ZONE) 150M HEAD (MIDDLE ZONE) & 100M HEAD (HIGHER ZONE)
F3	FIRE HYDRANT JOCKEY PUMP CAP-1000 LPM/20M HEAD (LOWER ZONE) 150M HEAD (MIDDLE ZONE) & 100M HEAD (HIGHER ZONE)
F4	MAIN ELECTRIC SPRINKLER PUMP CAP-2000 LPM/20M HEAD (LOWER ZONE) 150M HEAD (MIDDLE ZONE) & 100M HEAD (HIGHER ZONE)
F5	SPRINKLER JOCKEY PUMP CAP-1000 LPM/20M HEAD (LOWER ZONE) 150M HEAD (MIDDLE ZONE) & 100M HEAD (HIGHER ZONE)
F6	FIRE CURTAIN SYSTEM PUMP CAP-1000 LPM/20M HEAD
AV	AIR VESSEL

LEGEND FOR FIRE FIGHTING	
ICV-1	INSTALLATION CONTROL VALVE FOR LOWER FLOOR ZONE WORKING
ICV-2	INSTALLATION CONTROL VALVE FOR LOWER FLOOR ZONE STANDBY
ICV-3	INSTALLATION CONTROL VALVE FOR MIDDLE FLOOR ZONE WORKING
ICV-4	INSTALLATION CONTROL VALVE FOR MIDDLE FLOOR ZONE STANDBY
ICV-5	INSTALLATION CONTROL VALVE FOR HIGHER FLOOR ZONE WORKING
ICV-6	INSTALLATION CONTROL VALVE FOR HIGHER FLOOR ZONE STANDBY
ICV-7	INSTALLATION CONTROL VALVE FOR BASEMENTS FLOOR ZONE
LEGEND FOR FIRE FIGHTING	
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WATER
B.O.T.	BOTTOM OF TANK
B.V.V.	BUTTERFLY VALVE
N.R.V.	NON-RETURN VALVE
B.V.	BALL VALVE
A.V.	AIR VESSEL
STR	1" STRAINER
VE	VEHICLE EXHAUST
FHC	FIRE HOSE CONNECTION
PHR	FIRE HOSE REEL
LV	LANDING VALVE
ETW	EXTERNAL FIRE HYDRANT
F.B.C.	FIRE BRIGADE CONNECTION



Architects :

OWNER SIGN

ARCHITECT SIGN

Client:

ESSEL INFRA LLP

Project Title:

COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE
SECTOR -43, GURUGRAM

Drawing Title:

SUBMISSION OF Fire Fighting Scheme is
as per N.B.C. Part IV, revised 2016
SCHEMATIC DIAGRAM (FIRE FIGHTING)

Scale :

NTS

Date:

JUNE-2023

Drawn by:

Checked by:

Sheet No.:

Deputy Director

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

It is Certified that these drawing are as per original
drawings approved by HSNP Haryana Vide memo
No. 22/08/23
20002/EO01/UE021/FBPLA/000000722
Architect Sign



ARK CONSULTANTS
Fire Fighting Consultant

CP SP-BLD-01

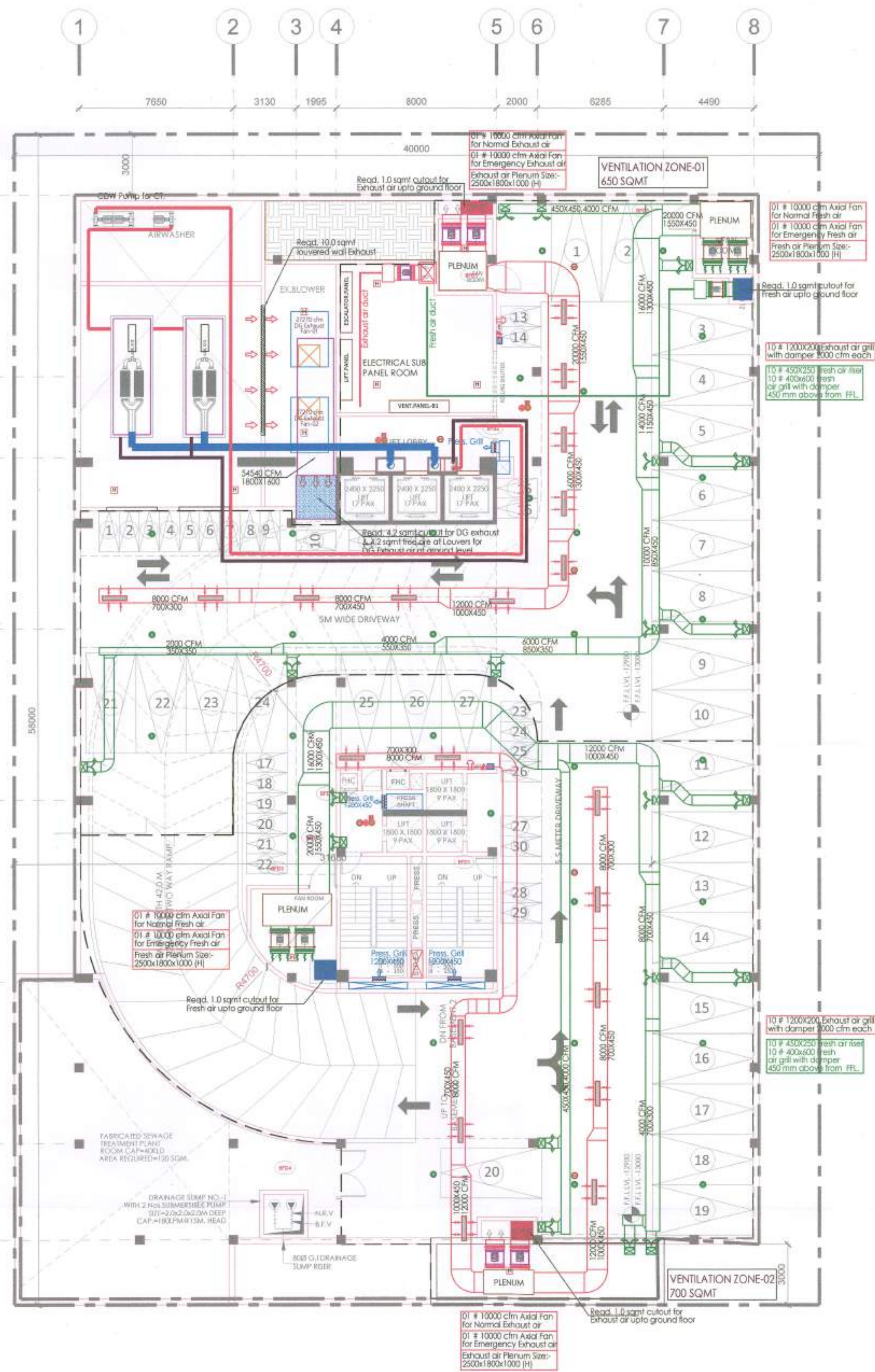
14/10/2023

Deputy Director

Signature

Signature

BASEMENT 3 SCALE 1: 150



BASEMENT 3 BUILT UP AREA CALCULATION				
ADDITION				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
A	34000	52000	1	1768.00
TOTAL AREA (A)				1768.00
SUBTRACTIONS				
AREA (RECTANGLE)				
LEGEND	WIDTH(MM)	LENGTH(MM)	NO.S	AREAS (MTS.SQ)
1	1395	895	1	1.11
2	980	1100	1	1.08
3	1300	500	2	1.30
4	650	850	1	0.42
5	1995	2140	1	4.27
6	2400	2140	3	15.43
7	850	750	1	0.64
8	800	1800	1	1.44
9	800	1115	1	0.89
10	800	595	1	0.48
11	1800	1800	1	3.24
12	1800	1800	2	6.48
13	600	2205	1	1.33
14	600	2210	1	1.33
15	620	1380	1	0.83
16	1055	985	1	1.08
17	1100	950	1	1.05
TOTAL AREA (B)				42.35
BUILT UP AREA BASEMENT 2 (A - B = C)				1725.65

BASEMENT 3 SERVICE AREA CALCULATION				
ADDITION				
LEGEND	WIDTH (MM)	LENGTH (MM)	NO.S	AREAS (MTS.SQ)
A	8000	11500	1	84.00
B	AS SHAPE		1	266.66
C	AS SHAPE		1	13.79
D	AS SHAPE		1	13.07
E	AS SHAPE		1	50.53
F	AS SHAPE		1	11.94
G	AS SHAPE		1	99.61
H	1500	1150	1	1.73
TOTAL SERVICE AREA (D)				541.31

HVAC LEGENDS

	SMOKE FRESH AIR DUCT
	PRESSURIZATION DUCT
	SMOKE EXHAUST AIR DUCT
	SMOKE EXHAUST AIR GRILL
	SMOKE FRESH AIR RISER
	PRESSURIZATION FAN
	AXIAL FAN FOR SMOKE FRESH AIR
	AXIAL FAN FOR SMOKE EXHAUST AIR
	MULTI DETECTOR

S.NO	LEGEND:-	DESCRIPTION
1		MANUAL CALL POINT
2		HOOTER
3		CONTROL MODULE
4		FIRE TELEPHONE JACK
5		RESPONSE INDICATOR
6		SMOKE DETECTOR (BELOW)
7		SMOKE DETECTOR (ABOVE)
8		HEAT DETECTOR
9		MULTI CRITERIA DETECTOR
10		BAEM TRANSMITTER
11		BAEM REFLECTOR
12		PA SPEAKER
13		FAS CONDUIT
14		PA CONDUIT
15		FIRE ALARM PANEL
16		PUBLIC ADDRESS PANEL

PARKING			
ON SURFACE		2 NO.5 HANDICAP PARKING	
IN BASEMENT		125 CARS	
BASEMENT LVL	BUILT UP	SERVICES	ACTUAL NO. OF CARS
BASEMENT 1	1703.19	588.19	1115.00
BASEMENT 2	1560.27	551.19	1008.94
BASEMENT 3	1725.65	541.31	1184.94
TOTAL	4989.11	1680.69	3308.28
TOTAL (A+B)			127

VENTILATION CALCULATION FOR SEC-43 COMMERCIAL BUILDING C-1											
S. No	Area Description	Type of Exhaust	Area (sqm)	Dead / ve Area (sqm)	Net Area (sqm)	Height (ft)	ACP	Air Qty (CFM)	Total (CFM)	Selected Fan (CFM)	Qty
BASEMENT-3											
Zone - 1											
a)	Parking Area	Normal Exhaust	65	42	650	6994	12.96	5	9041	10000	1
b)	Parking Area	Emergency Exhaust	65	42	650	6994	12.96	5	9041	10000	1
c)	Parking Area	Normal Fresh Air	65	42	650	6994	12.96	5	9041	10000	1
d)	Parking Area	Emergency Fresh Air	65	42	650	6994	12.96	5	9041	10000	1
Zone - 2											
a)	Parking Area	Normal Exhaust	800	100	700	7532	12.96	6	9758	10000	1
b)	Parking Area	Emergency Exhaust	800	100	700	7532	12.96	6	9758	10000	1
c)	Parking Area	Normal Fresh Air	800	100	700	7532	12.96	6	9758	10000	1
d)	Parking Area	Emergency Fresh Air	800	100	700	7532	12.96	6	9758	10000	1

Authority Signatory

It is Certified that these drawing are as per original drawings approved by HSWP Haryana Video memo No. 20007/ECOM/11/EDM/FBLA/10000003-2
24/05/2023
Architect Sign



ARK CONSULTANTS
Pvt. Ltd.
(Pvt. Engineering Consultants)



FIRE SUBMISSION

OWNER SIGN
ARCHITECT SIGN
Ar. VIKRANTA GOYAL
CA/2019/114662
H.No. 738/2, Patel Nagar, Gurugram

Clients:
ESSEL INFRA LLP

Project Title :
COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE SECTOR -43, GURUGRAM

Drawing Title :
SUBMISSION DRAWINGS

BASEMENT 3 FLOOR PLAN
SMOKE VENTILATION C, Part-IV, revised 2 & ELECTRICAL DRAWINGS

Scale :
Date : SEP-2023
Drawn By : Gurugram
Checked By : Gurugram
Sheet Size : A1

C1-HVAC-003

File Name : C1-HVAC-003.dwg
Date : 14/10/2023
Drawn By : Gurugram
Checked By : Gurugram
Sheet Size : A1



AREA FREE FROM FAR				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
14	2	6000	3300	39.60
TOTAL D				39.60
TOTAL BUILT UP (C +D)				1188.14

	SMOKE FRESH AIR DUCT
	PRESSURIZATION DUCT
	SMOKE EXHAUST AIR DUCT
	SMOKE EXHAUST AIR GRILL
	SMOKE FRESH AIR RIZER
	PRESSURIZATION FAN
	AXIAL FAN FOR SMOKE FRESH AIR
	AXIAL FAN FOR SMOKE EXHAUST AIR
	MULTI DETECTOR

FIRST FLOOR				
SL.NO.	TAG.	Rough Opening		REMARKS
		Width	Height	
INTERNAL DOOR SCHEDULE				
1	ID1	1200	2450	Toilet
2	ID2	1050	2450	1/2 Toilet
3	ID3	750	2450	Toilet
FIRE DOOR SCHEDULE				
1	FD1	1300	2450	Staircase/Lift lobby
SERVICE DOOR SCHEDULE				
1	TD1	1150	2450	SERVICE
2	TD2	800	2450	FHC, SERVICE
3	TD3	650	2450	FHC, SERVICE
GLAZING DOOR SCHEDULE				
1	GL1	5255	3550/B.O.B	SHOP 110, SHOP 111
2	GL2	5915	3550/B.O.B	SHOP 112
3	GL3	17135	3550/B.O.B	SHOP 113
4	GL4	9280	3550/B.O.B	SHOP 101
5	GL5	5400	3550/B.O.B	SHOP 102
6	GL6	9325	3550/B.O.B	SHOP 103
7	GL7	5435	3550/B.O.B	SHOP 104
8	GL8	6920	3550/B.O.B	SHOP 105
9	GL9	11060	3550/B.O.B	SHOP 106
10	GL10	8550	3550/B.O.B	SHOP 107
11	GL11	10275	3550/B.O.B	SHOP 108
12	GL12	2000	3550/B.O.B	SHOP 109
13	GL13	2575	3550/B.O.B	SHOP 110
14	GL14	5415	3550/B.O.B	SHOP 112
15	GL15	8325	3550/B.O.B	SHOP 113
17	GL16	16745	3550/B.O.B	SHOP 106
18	GL17	8550	3550/B.O.B	SHOP 107
19	GL18	7825	3550/B.O.B	SHOP 108
20	GL19	13680	3550/B.O.B	KIOSK
WINDOW SCHEDULE				
1	W1	1800	3550/B.O.B	SHOP 101, SHOP 105
2	W2	5235	3550/B.O.B	SHOP 101, SHOP 105
3	W3	4200	3550/B.O.B	SHOP 101
4	W4	4900	3550/B.O.B	SHOP 102
5	W5	9325	3550/B.O.B	SHOP 103
6	W6	5185	3550/B.O.B	SHOP 104
7	W7	1035	3550/B.O.B	SHOP 105
8	W8	1800	3550/B.O.B	SHOP 109
9	W9	5300	3550/B.O.B	SHOP 109
10	W10	4510	3550/B.O.B	SHOP 108
11	W11	2000	3550/B.O.B	SHOP 108, SHOP 109
12	W12	1980	3550/B.O.B	SHOP 110

S.NO	LEGEND:-	DESCRIPTION
1		MANUAL CALL POINT
2		HOOTER
3		CONTROL MODULE
4		FIRE TELEPHONE JACK
5		RESPONSE INDICATOR
6		SMOKE DETECTOR (BELOW)
7		SMOKE DETECTOR (ABOVE)
8		HEAT DETECTOR
9		MULTI CRITERIA DETECTOR
10		BAEM TRANSMETER
11		BAEM REFLECTOR
12		PA SPEAKAR
13		FAS CONDUIT
14		PA CONDUIT
15		FIRE ALARM PANEL
16		PUBLIC ADDRESS PANEL

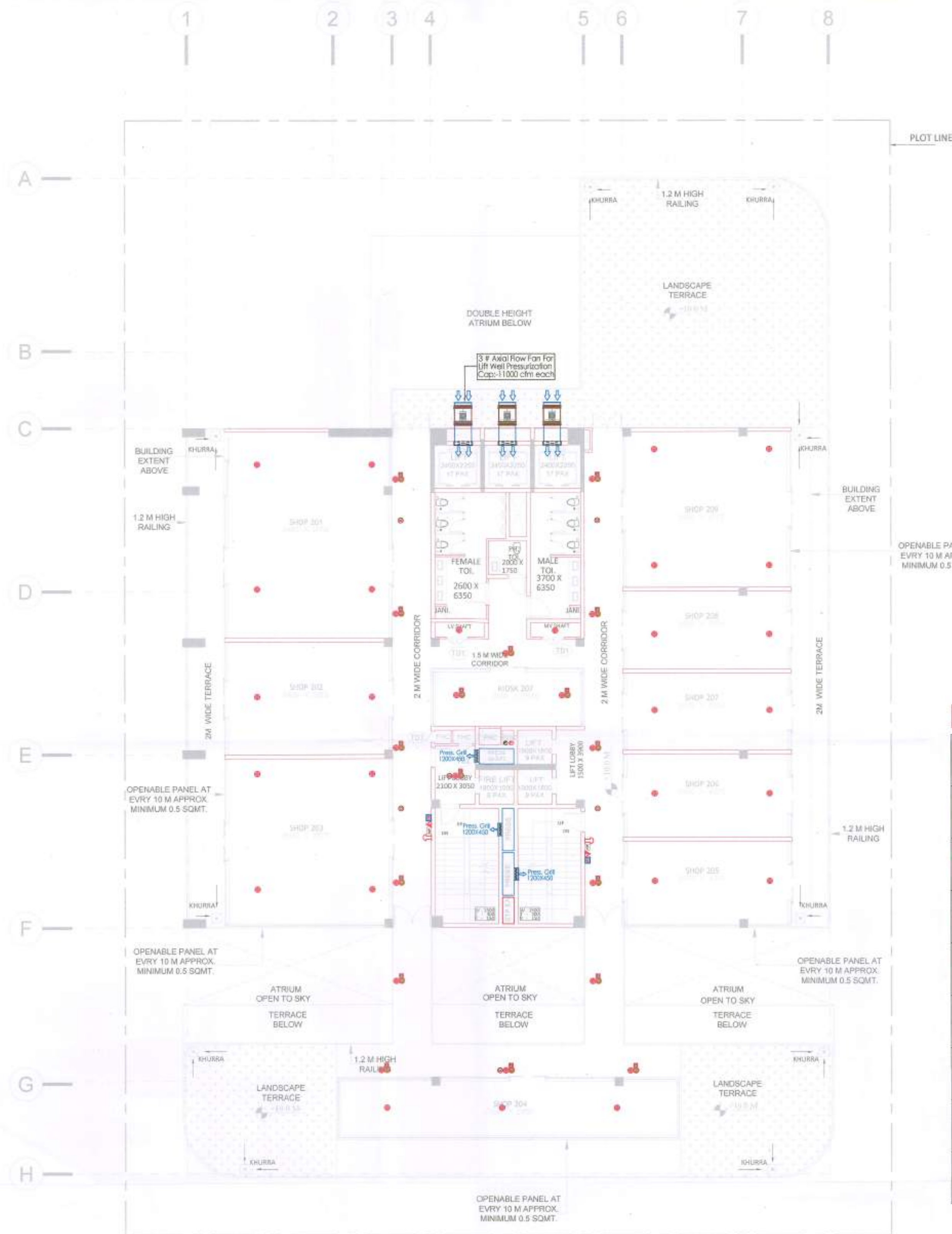
ARK CONSULTANTS
Fire Fighting Consultants

FIRE SUBMISSION

Gaya
Ar. VINEMRA GOYAL
CA/2019/114662
H.No. 738/2, Patel Nagar, Gunigram

Date : SEP-2023
Drawn By :
Checked By : FSO
Sheet : Gurugram

CDH/VAC-102
Gurugram



SECOND FLOOR PLAN (1:150)

FAR				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION				
A	1	26000	30000	780.00
B	1	7000	34000	238.00
TOTAL AREA(A)				1018.00
SUBTRACTION				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	2	6000	3300	39.60
2	1	6000	600	3.60
3	3	1800	1800	9.72
4	2	850	800	1.36
5	1	750	800	0.60
6	2	750	2600	3.90
7	1	2400	900	2.16
8	3	2250	2400	16.20
9	2	500	1745	1.75
10	1	500	2400	1.20
15	1	7000	8000	56.00
16	1	7000	8000	56.00
17	1	1750	18000	31.50
18	1	2000	18000	36.00
TOTAL SUBTRACTION (B)				259.59
C. FAR (A-B)				758.42
AREA FREE FROM FAR				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
ADDITION (X)				
1	2	6000	3300	39.60
11	2	26000	2000	104.00
12	2	6000	2000	24.00
TOTAL ADDITION				167.60
D. TOTAL NON FAR AREA (X-Y)				167.60
TOTAL BUILT UP (C+D)				926.02
CARPET AREA				
S.NO.	NO.s	Length(in mm)	Breadth(in mm)	Area(in sqm)
1	1	10710	8400	89.96
2	1	5915	8400	49.69
3	1	8575	8400	72.03
4	1	2840	7600	21.58
5	1	8075	8400	67.83
6	2	4050	8400	68.04
7	1	4325	8400	36.33
8	1	4300	8400	36.12
9	1	2850	17600	50.16
CARPET AREA				491.74

HVAC LEGENDS

	SMOKE FRESH AIR DUCT
	PRESSURIZATION DUCT
	SMOKE EXHAUST AIR DUCT
	SMOKE EXHAUST AIR GRILL
	SMOKE FRESH AIR RIZER
	PRESSURIZATION FAN
	AXIAL FAN FOR SMOKE FRESH AIR
	AXIAL FAN FOR SMOKE EXHAUST AIR
	MULTI DETECTOR

SECOND FLOOR				
S.NO.	TAG.	Width	Height	REMARKS
INTERNAL DOOR SCHEDULE				
1	ID1	1200	2450	Toilet
2	ID2	750	2450	Toilet
FIRE DOOR SCHEDULE				
3	FD1	1300	2450	Staircase, lift lobby
SERVICE DOOR SCHEDULE				
1	TD1	1150	2450	SERVICE
2	TD2	800	2450	FHC, SERVICE
3	TD3	650	2450	FHC, SERVICE
GLAZING DOOR SCHEDULE				
1	GL20	10775	3350/8.0.8	RESTAURANT 201
2	GL21	5915	3350/8.0.8	RESTAURANT 202
3	GL22	16925	3350/8.0.8	RESTAURANT 203
4	GL23	11950	3350/8.0.8	RESTAURANT 205
5	GL24	6590	3350/8.0.8	RESTAURANT 205
6	GL25	4325	3350/8.0.8	RESTAURANT 206
7	GL26	4050	3350/8.0.8	RESTAURANT 207
8	GL27	4025	3350/8.0.8	RESTAURANT 208
9	GL28	8075	3350/8.0.8	RESTAURANT 209
10	GL29	7825	3350/8.0.8	RESTAURANT 209
11	GL30	7495	3350/8.0.8	RESTAURANT 201
12	GL31	5415	3350/8.0.8	RESTAURANT 202
13	GL32	8325	3350/8.0.8	RESTAURANT 203
14	GL32	8325	3350/8.0.8	RESTAURANT 203
15	GL32	8325	3350/8.0.8	RESTAURANT 203
16	GL32	8325	3350/8.0.8	RESTAURANT 203
17	GL32	8325	3350/8.0.8	RESTAURANT 203
18	GL32	8325	3350/8.0.8	RESTAURANT 203
19	GL32	8325	3350/8.0.8	RESTAURANT 203
20	GL32	8325	3350/8.0.8	RESTAURANT 203
WINDOW SCHEDULE				
1	W13	2575	3350/8.0.8	SHOP 101, SHOP 105
2	W20	5250	3350/8.0.8	RESTAURANT 204
3	W21	2850	3350/8.0.8	RESTAURANT 204
4	W22	17600	3350/8.0.8	RESTAURANT 204
EXTERNAL DOOR SCHEDULE				
1	ED1	2000	2450	CORRIDOR

S.NO	LEGEND:-	DESCRIPTION
1		MANUAL CALL POINT
2		HOOTER
3		CONTROL MODULE
4		FIRE TELEPHONE JACK
5		RESPONSE INDICATOR
6		SMOKE DETECTOR (BELOW)
7		SMOKE DETECTOR (ABOVE)
8		HEAT DETECTOR
9		MULTI CRITERIA DETECTOR
10		BAEM TRANSMETER
11		BAEM REFLECTOR
12		PA SPEAKAR
13		FAS CONDUIT
14		PA CONDUIT
15		FIRE ALARM PANEL
16		PUBLIC ADDRESS PANEL

Authority Signatory

It is Certified that these drawing are as per original drawings approved by HSNP Hariana Vide memo No 2001/30014 dated 22/08/2023

Architect Sign.

ARK CONSULTANTS
(Fire Fighting Consultancy)

NOTE:

1. THE BUILDING WILL BE MECHANICALLY VENTILATED.

2. SPRINKLERS ARE INCORPORATED AS/NBC.

FIRE SUBMISSION

Architects :

OWNER SIGN

ARCHITECT SIGN

As. VINAY K. GOYAL
CA/2019/114662
H.No. 739/2, Patel Nagar, Gurugram

Clients:

ESSEL INFRA LLP

Project Title :

COMMERCIAL COMPLEX SITE C1 IN SHOPPING CENTRE SECTOR -43, GURUGRAM.

Drawing Title :

SUBMISSION DRAWINGS

Certified that the Fire Fighting Scheme is as per N.B.C. Part 4, revised 2016

Fire Fighting Scheme is as per N.B.C. Part 4, revised 2016

Gurugram

Scale :

1:

Date :

SEP-2023

Drawn By :

11/65

Checked By :

11/65

Sheet No. :

1

Drawing No. :

C1-HVAC-103

