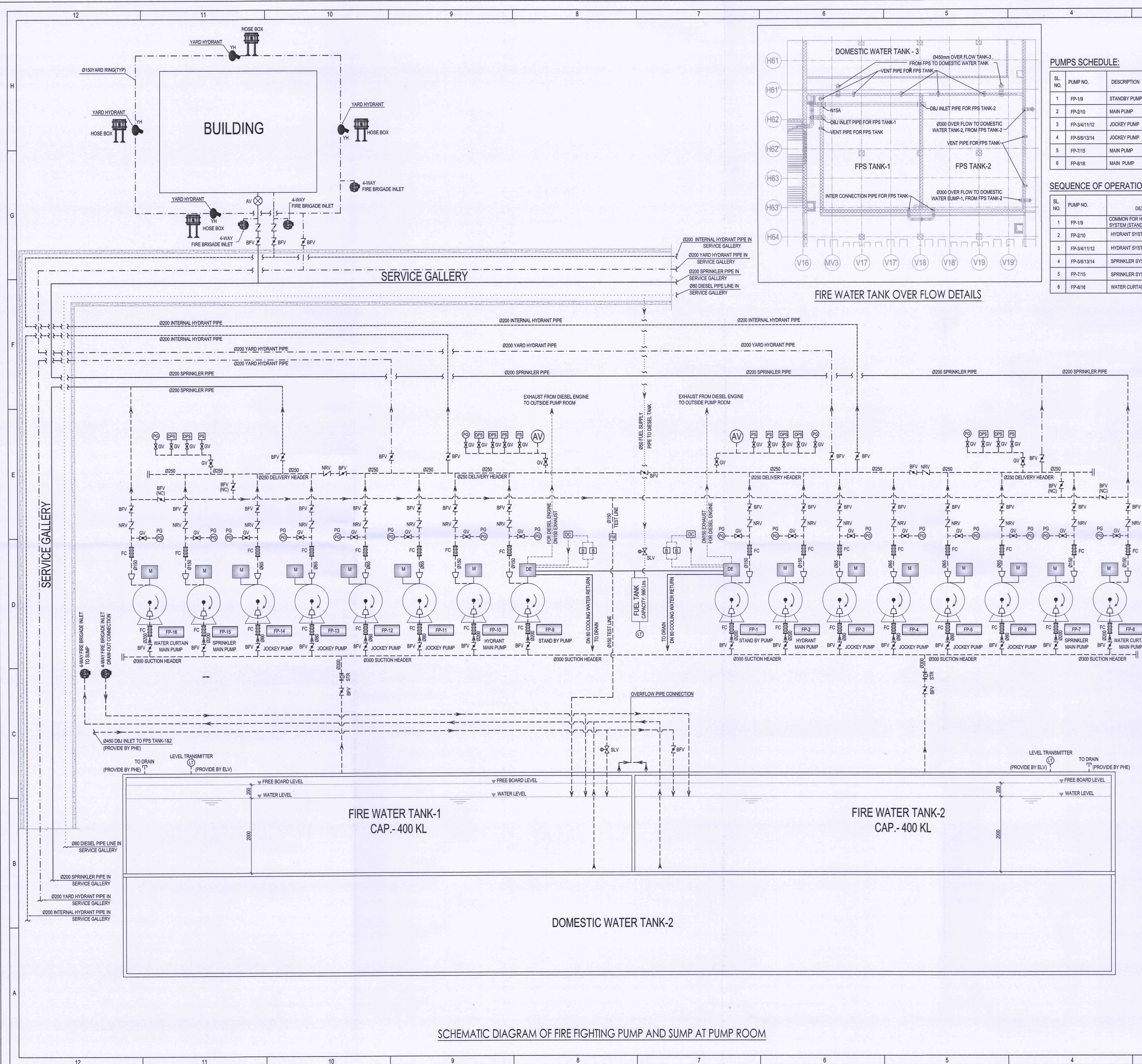
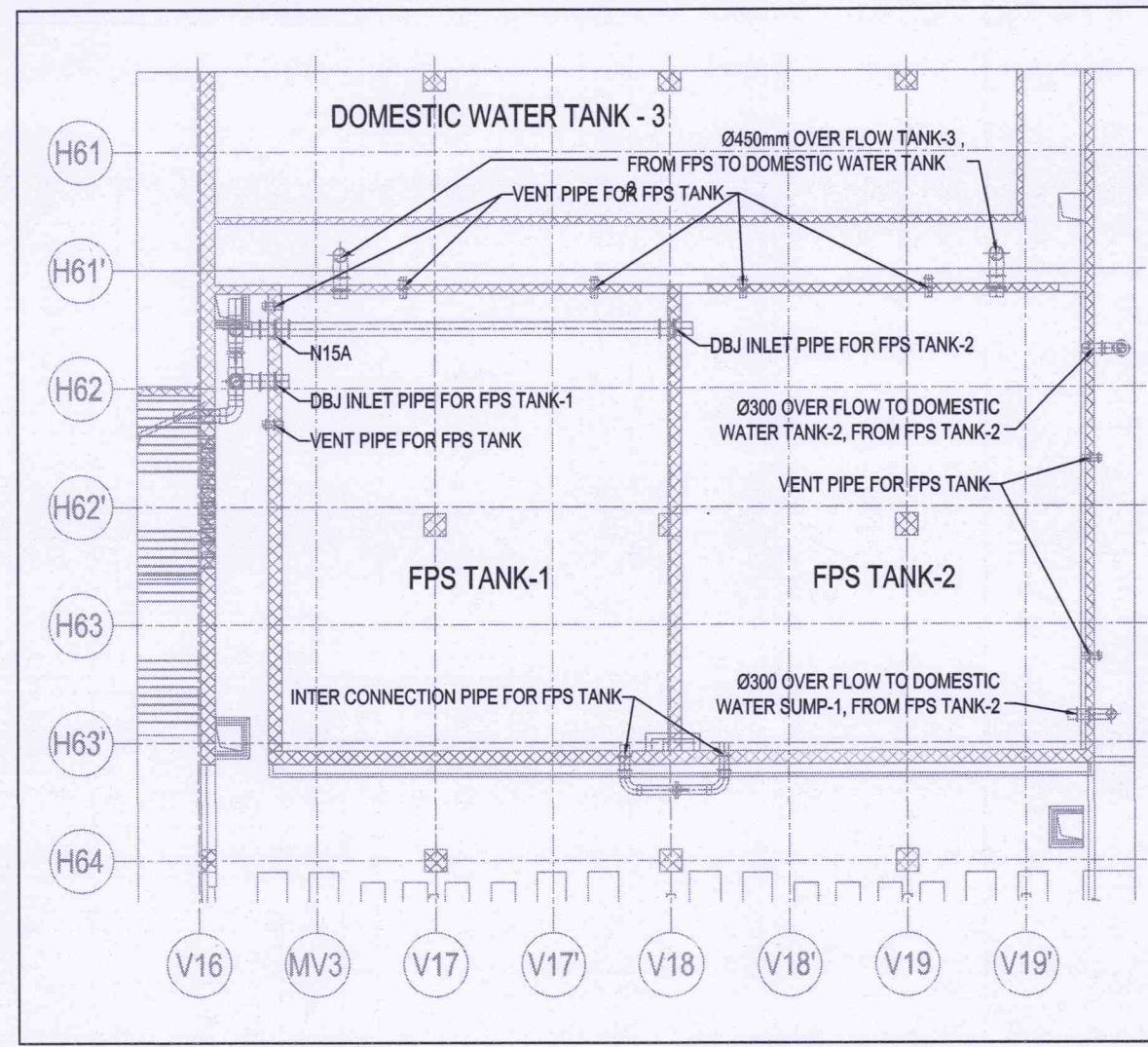




SCHEMATIC DIAGRAM OF FIRE FIGHTING PUMP AND SUMP AT PUMP ROOM



FIRE WATER TANK OVER FLOW DETAILS

PUMPS SCHEDULE:

SL. NO.	PUMP NO.	DESCRIPTION	SERVICE	RATE OF FLOW (LPM)	HEAD (MWC)	QUANTITY (NOS.)
1	FP-1/9	STANDBY PUMP	COMMON	2850	120	02
2	FP-2/10	MAIN PUMP	HYDRANT SYSTEM	2850	120	02
3	FP-3/4/11/12	JOCKEY PUMP	HYDRANT SYSTEM	280	120	04
4	FP-5/6/13/14	JOCKEY PUMP	SPRINKLER SYSTEM	280	120	04
5	FP-7/15	MAIN PUMP	SPRINKLER SYSTEM	2850	120	02
6	FP-8/16	MAIN PUMP	WATER CURTAIN SYSTEM	2850	120	02

SEQUENCE OF OPERATION FOR FIRE PUMPS

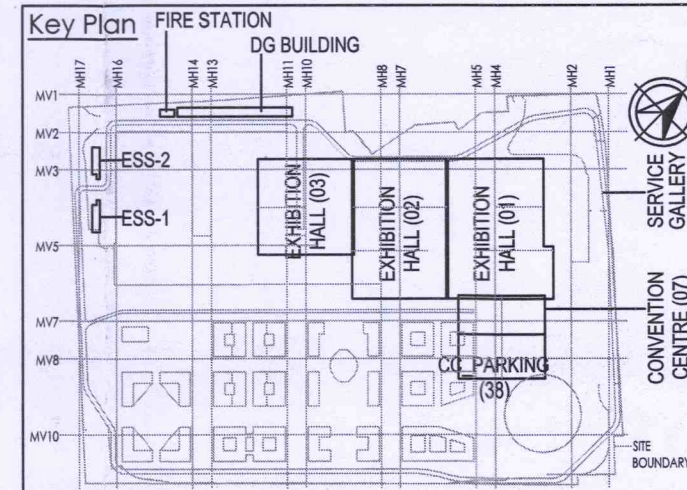
SL. NO.	PUMP NO.	PUMP DESCRIPTION	START PRESSURE	STOP PRESSURE
1	FP-1/9	COMMON FOR HYDRANT & SPRINKLER SYSTEM (STANDBY PUMP)	6 BAR	-
2	FP-2/10	HYDRANT SYSTEM (MAIN PUMP)	9 BAR	-
3	FP-3/4/11/12	HYDRANT SYSTEM (JOCKEY PUMP)	11 BAR	12 BAR
4	FP-5/6/13/14	SPRINKLER SYSTEM (JOCKEY PUMP)	10 BAR	12 BAR
5	FP-7/15	SPRINKLER SYSTEM (MAIN PUMP)	8 BAR	-
6	FP-8/16	WATER CURTAIN PUMP	AT THE TIME OF WATER CURTAIN SYSTEM OPERATES	-

LEGEND:

SL. No.	SYMBOL	DESCRIPTION
1	(M)	ELECTRICALLY OPERATED PUMPSET
2	(DE)	DIESEL ENGINE OPERATED PUMPSET
3	(PS)	PRESSURE SWITCH
4	(DPS)	DIFFERENTIAL PRESSURE SWITCH
5	(PG)	PRESSURE GAUGE
6	(V)	SINGLE HEADED YARD HYDRANT VALVE
7	(H)	PEDESTAL MOUNTED TYPE HOSE BOX
8	(S)	BUCKET TYPE STRAINER
9	(B)	BLIND FLANGE
10	(G)	GLOBE VALVE
11	(NC)	BUTTERFLY VALVE (NORMALLY CLOSED)
12	(NR)	NON-RETURN VALVE
13	(B)	BUTTERFLY VALVE
14	(R)	REDUCER
15	(M)	MOTOR
16	(DE)	DIESEL ENGINE
17	(V)	4-WAY FIRE BRIGADE INLET
18	(AV)	AIR VESSEL
19	(B)	BATTERY
20	(L)	LEVEL INDICATOR
21	(T)	LEVEL TRANSMITTER
22	(FM)	FLOW METER
23	(AV)	ALARM VALVE
24	(SLV)	SOLENOID VALVE

NOTES:

1. THE FIRE WATER SYSTEM IS DESIGNED AS PER NBC-PART IV 2016 AND RELEVANT INDIAN STANDARDS
2. POSITIVE SUCTION PUMPING ARRANGEMENT IS CONSIDERED
3. ALL VALVES SHALL BE LOCK OPEN POSITION EXCEPT DRAIN VALVES & TEST LINE VALVES
4. FOR AIR VESSEL DETAILS AND FIRE BRIGADE INLETS/DRAW OFF CONNECTIONS, REFER PUMP ROOM DRAWINGS.



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Certification

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Design Consultant
Architectural Consultant
Proof Consultant
Structural

Issued by:

Employer / Employer's Engineer

R0	ISSUED AS GOOD FOR CONSTRUCTION	16.01.19	VNV	SNL	FBI	J-SPN
REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD

Revisions

ARCHITECTURE	FP-1	FP-2	FP-3	FP-4	FP-5	FP-6	FP-7	FP-8	FP-9	FP-10	FP-11	FP-12	FP-13	FP-14	FP-15	FP-16
STRUCTURAL																
ELECTRICAL																
ELV SYSTEM																
HVAC																

EPC Contractor

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JOB No : 017203

Project Name

DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE

SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status

GOOD FOR CONSTRUCTION (GFC)

Drawing No

F 03 0013 R0

Rev. No

Title :

EXHIBITION HALL - 3

SERVICE BUILDING:

P&ID FOR FIRE FIGHTING PUMP

EDRC DWG No :

017203 - F - SP - 03 - PI - 0013

Scale :

As Indicated

Sheet Size

A1

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