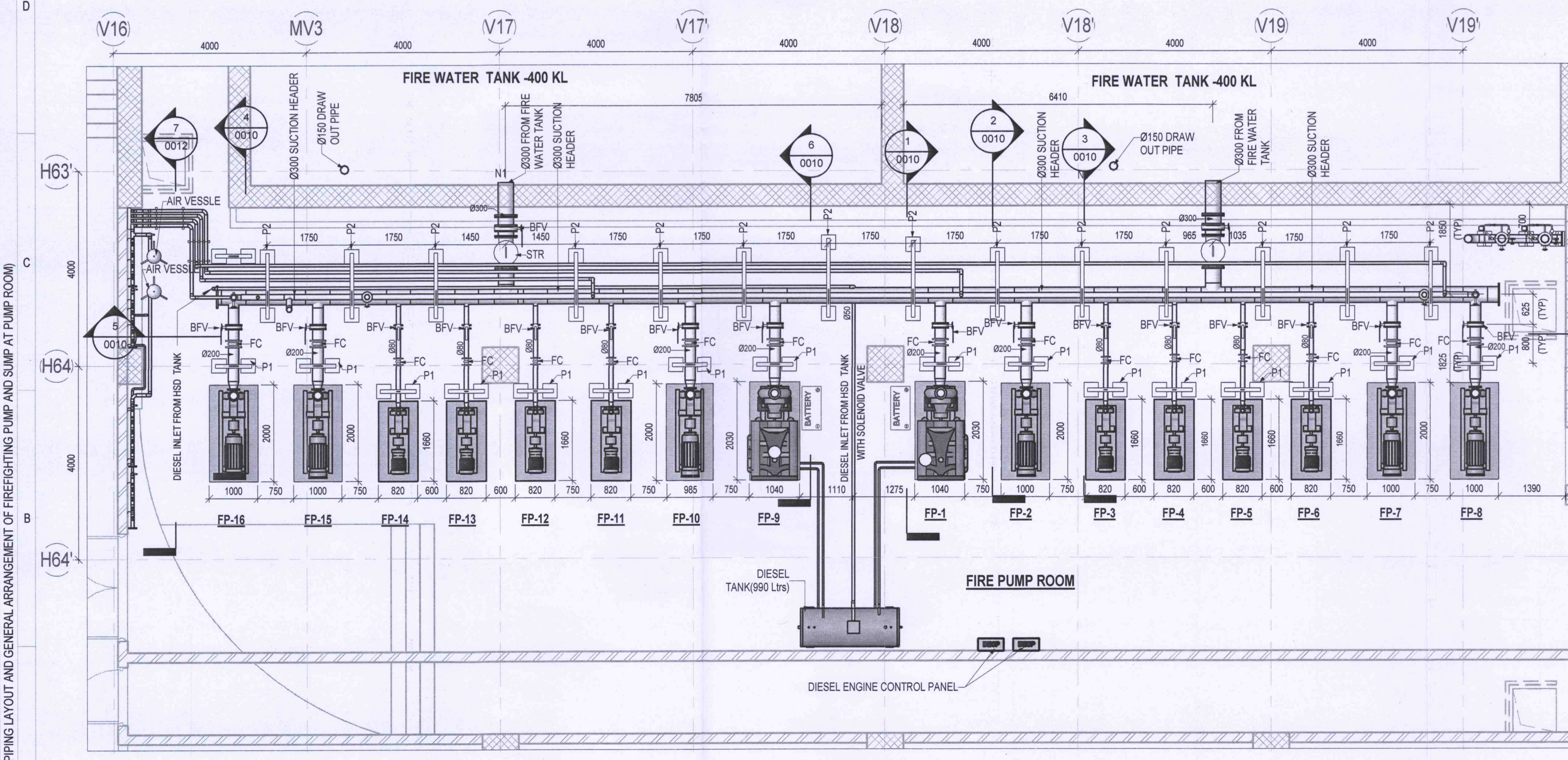
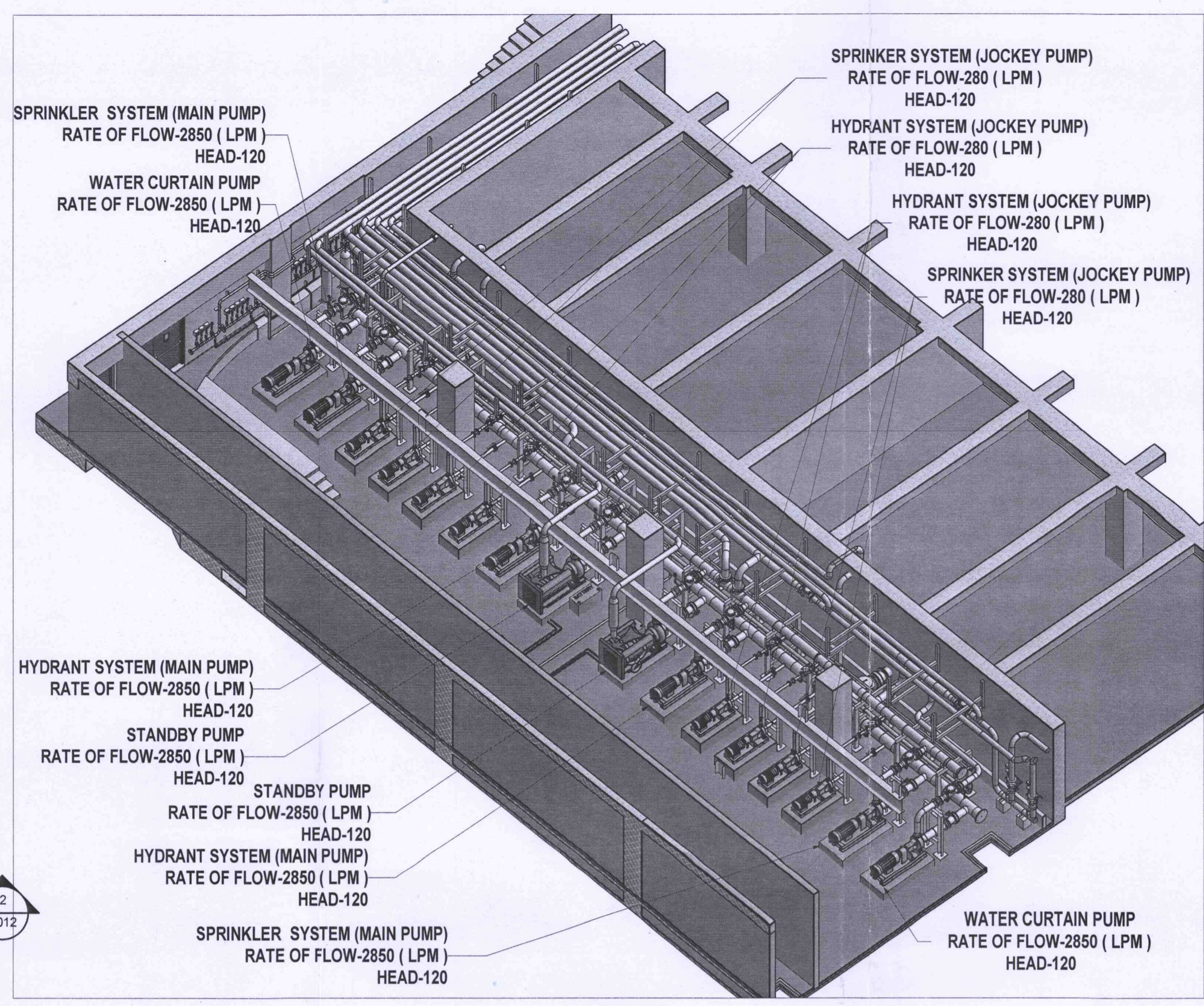


LAYOUT OF PIPING INSIDE THE PUMP ROOM ABOVE 2Mtrs LEVEL
SCALE - 1 : 75



LAYOUT OF PIPING INSIDE THE PUMP ROOM BELOW 2Mtrs LEVEL
SCALE - 1 : 75



PUMPS SCHEDULE							
SL. NO.	PUMP NO.	DESCRIPTION	SERVICE	RATE OF FLOW (LPM)	HEAD (MWC)	TYPE	DRIVE
1.	FP-1/9	COMMON STANDBY PUMP	COMMON FOR HYDRANT & SPRINKLER SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	DIESEL ENGINE
2.	FP-2/10	MAIN PUMP	HYDRANT SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	MOTOR
3.	FP-3/4/11/12	JOCKEY PUMP	HYDRANT SYSTEM	280	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	MOTOR
4.	FP-5/6/13/14	JOCKEY PUMP	SPRINKLER SYSTEM	280	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	MOTOR
5.	FP-7/15	MAIN PUMP	SPRINKLER SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	MOTOR
6.	FP-8/16	MAIN PUMP	WATER CURTAIN SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE	MOTOR

SEQUENCE OF OPERATION FOR FIRE PUMPS							
SL. NO.	PUMP NO.	PUMP DESCRIPTION	START PRESSURE	STOP PRESSURE	PRESSURE SWITCH TAG NO.	MODE OF START	MODE OF STOP
1.	FP-1/9	COMMON STANDBY PUMP	6 BAR	--	PS-101	AUTOMATIC	MANUAL
2.	FP-2/10	HYDRANT SYSTEM (MAIN PUMP)	9 BAR	--	PS-102	AUTOMATIC	MANUAL
3.	FP-3/4/11/12	HYDRANT SYSTEM (JOCKEY PUMP)	11 BAR	12 BAR	PS-103	AUTOMATIC	AUTOMATIC
4.	FP-5/6/13/14	SPRINKLER SYSTEM (JOCKEY PUMP)	10 BAR	12 BAR	PS-104	AUTOMATIC	AUTOMATIC
5.	FP-7/15	SPRINKLER SYSTEM (MAIN PUMP)	8 BAR	--	PS-104	AUTOMATIC	MANUAL
6.	FP-8/16	WATER CURTAIN PUMP	AT THE TIME OF WATER CURTAIN SYSTEM OPERATES			AUTOMATIC	MANUAL

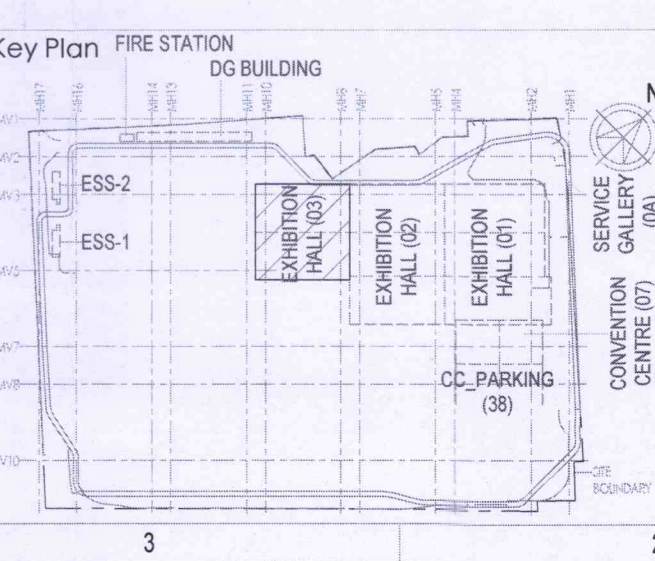
SCHEDULE OF PUDDLE FLANGES					
SL. NO.	SLEEVE NO	DESCRIPTION OF PUDDLE FLANGE	PIPE SIZE	QTY	CENTRE OF SLEEVE (+4500 AS 0.000)
1.	N1	SUCTION HEADER	300MM	02	+750
2.	N2	TEST LINE	100MM	02	+3800
3.	N3	DRAW OUT CONNECTION	150MM	02	+3850
4.	N4	DRAW IN CONNECTION	150MM	02	+3550

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 VALES AND TEST LINE VALVES

LEGEND:-

SL. NO.	SYMBOL	DESCRIPTION
1	[Symbol]	ABOVE GROUND PIPING
2	[Symbol]	FC FLEXIBLE CONNECTION
3	[Symbol]	NRV NON RETURN VALVE
4	[Symbol]	GV GLOBE VALVE
5	[Symbol]	BFV BUTTERFLY VALVE
6	[Symbol]	BFV (NC) BUTTERFLY VALVE (NORMALLY CLOSED)
7	[Symbol]	STR BUCKET TYPE STRAINER
8	[Symbol]	PG PRESSURE GAUGE
9	[Symbol]	PS PRESSURE SWITCH
10	[Symbol]	AV AIR VESSEL (PRESSURE VESSEL)
11	[Symbol]	ARV AIR RELEASE VALVE
12	[Symbol]	DECP DIESEL ENGINE CONTROL PANEL



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REVISIONS

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
01	ISSUED AS GOOD FOR CONSTRUCTION	14.01.19	WNV	SEH	PSH	SPN

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Drawing No: F 03 0009 Rev. No: R0

Title: EXHIBITION HALL 3 PIPING LAYOUT AND GENERAL ARRANGEMENT OF FIREFIGHTING PUMP AND SUMP AT PUMP ROOM

EDRC DWG No : O17203 - F - SP - 03 - PL - 0009 Scale: As indicated Sheet Size: A1

O17203 - F - SP - 03 - PL - 0009 (PIPING LAYOUT AND GENERAL ARRANGEMENT OF FIREFIGHTING PUMP AND SUMP AT PUMP ROOM)

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