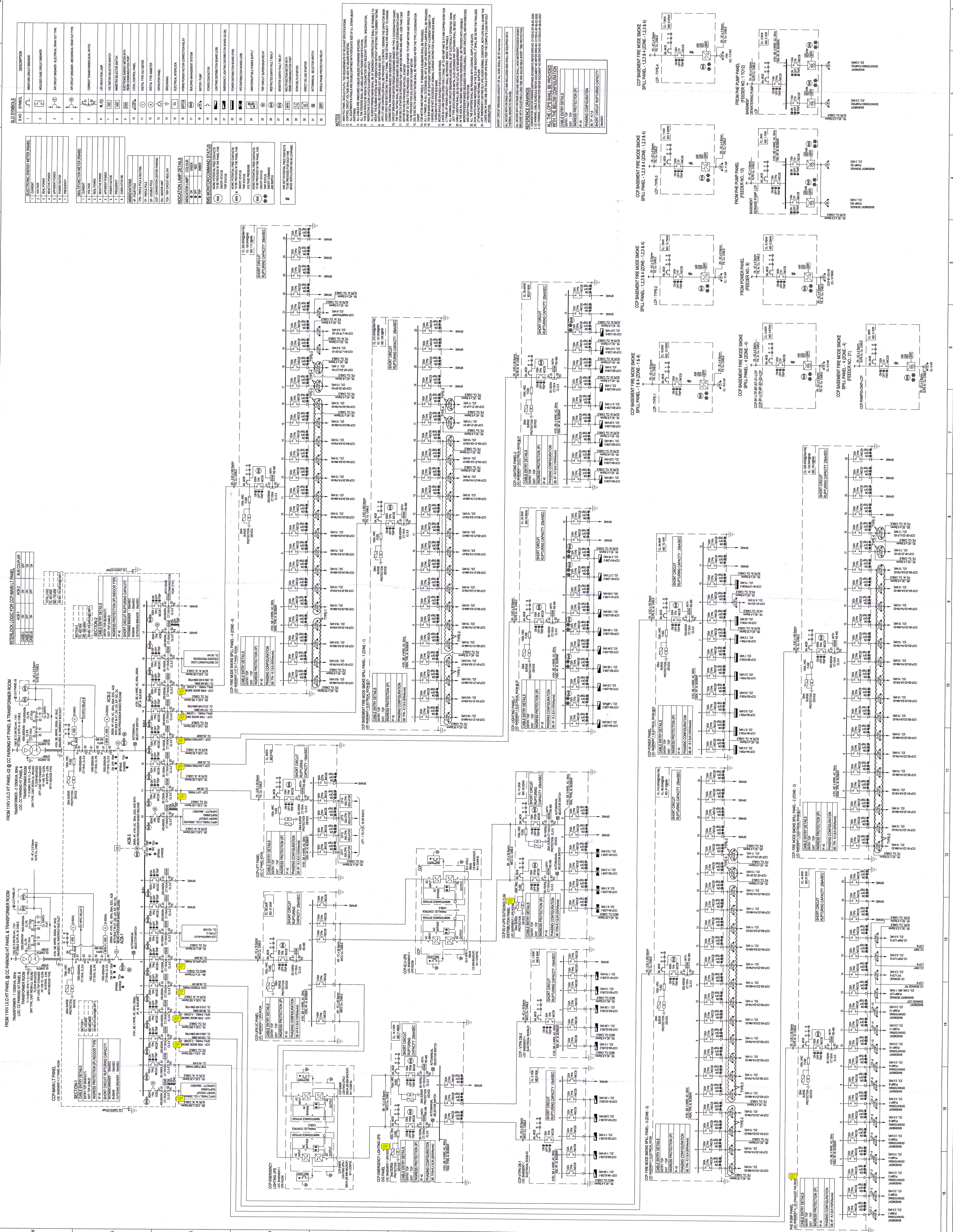
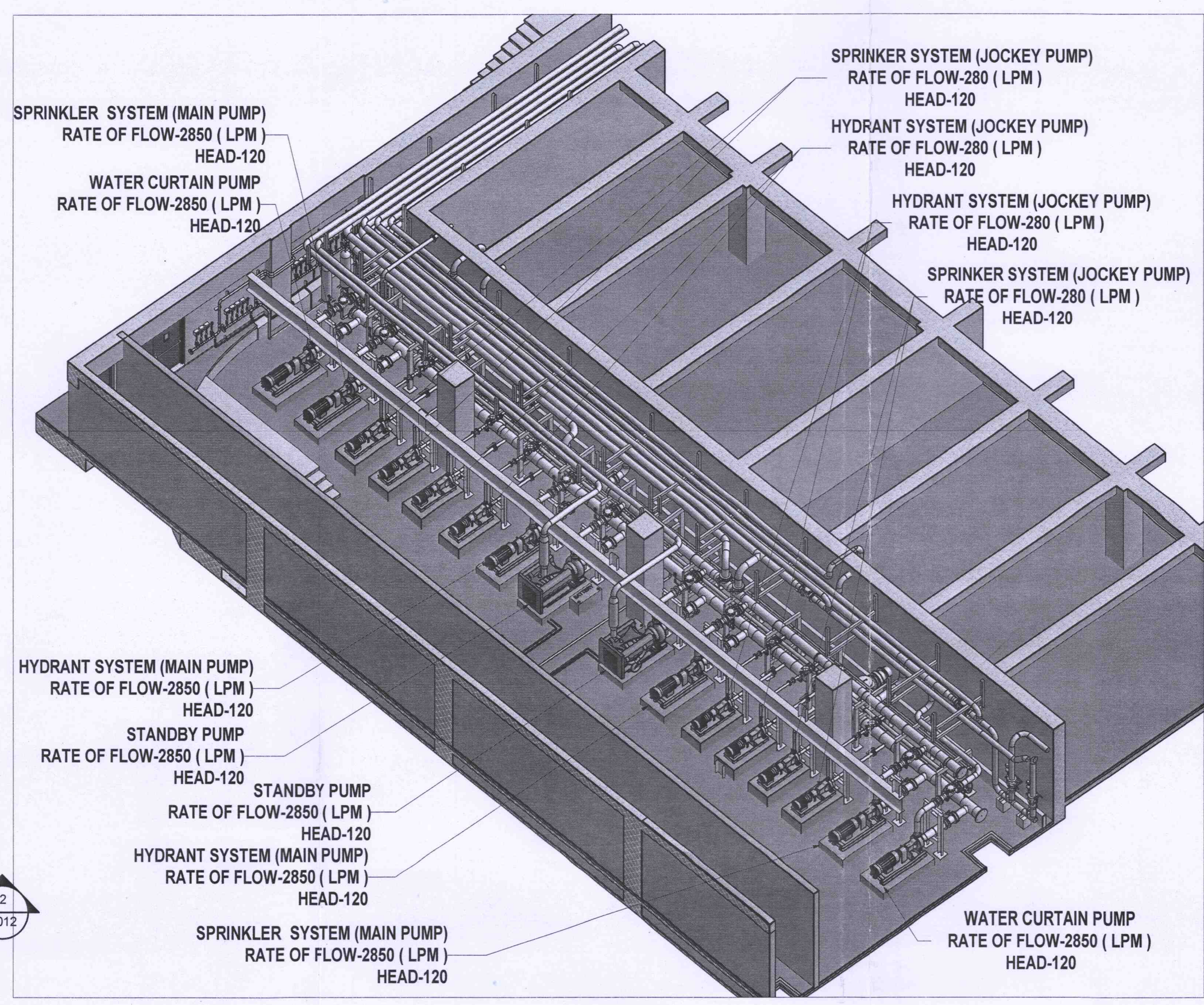
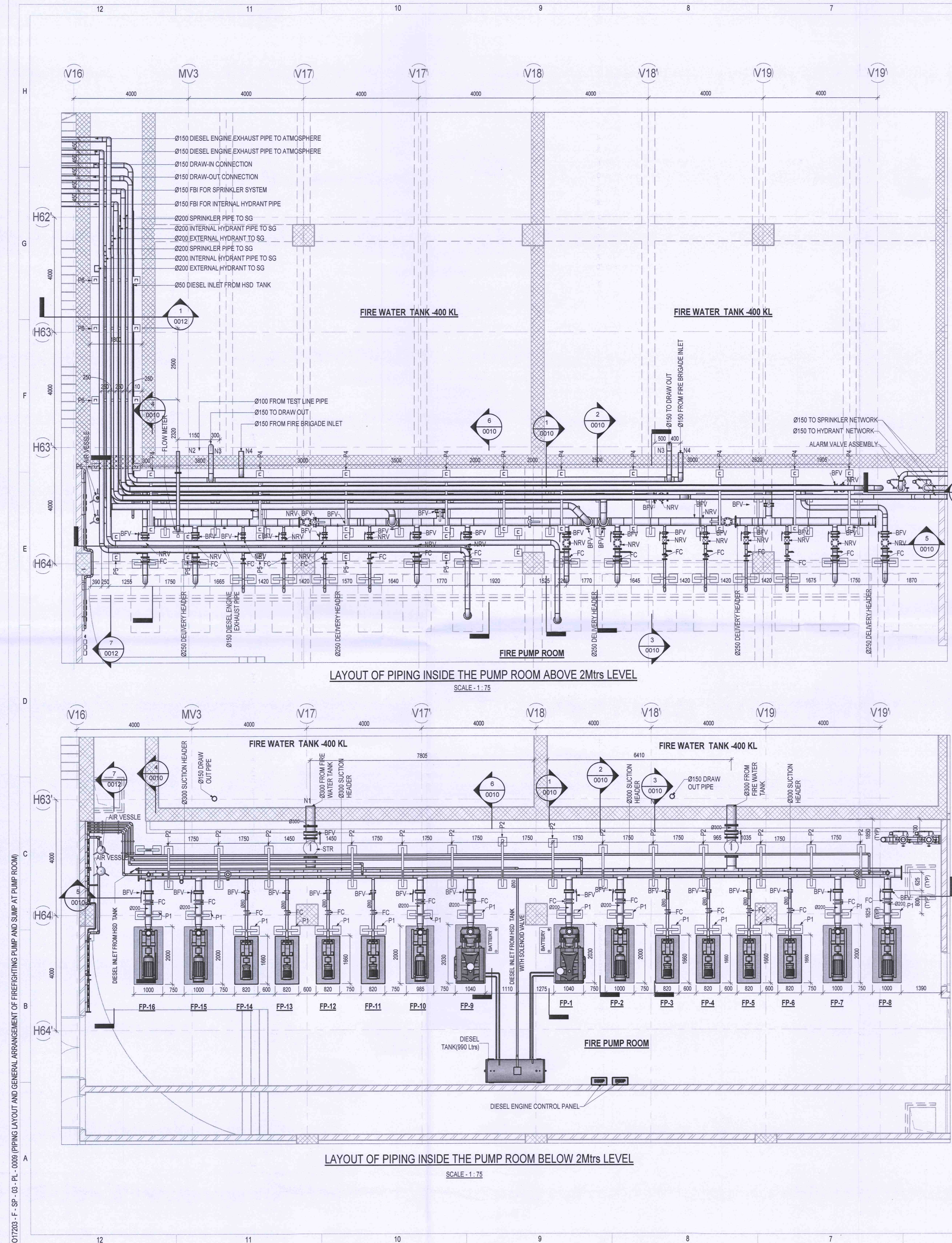






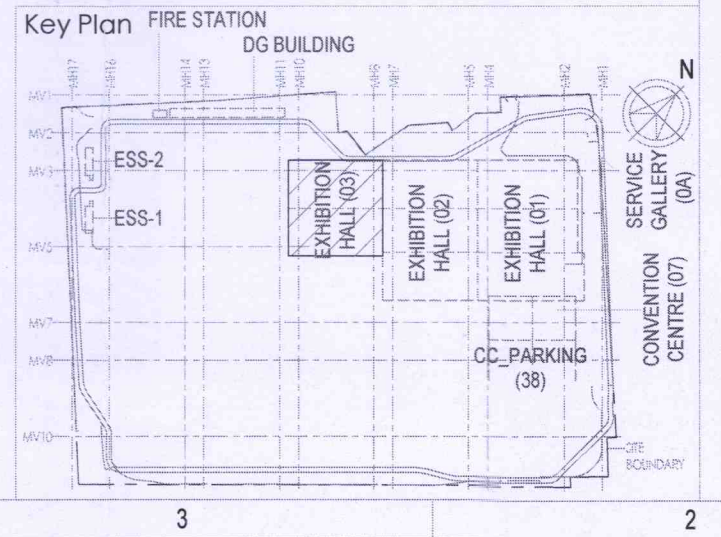
PUMPS SCHEDULE						
SL. NO.	PUMP NO.	DESCRIPTION	SERVICE	RATE OF FLOW (LPM)	HEAD (MWC)	TYPE
1.	FP-1/9	COMMON STANDBY PUMP	COMMON FOR HYDRANT & SPRINKLER SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE
2.	FP-2/10	MAIN PUMP	HYDRANT SYSTEM	2850	120	HORIZONTAL CENTRIFUGAL END SUCTION TYPE
3.	FP-3/4/11/12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

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

SCHEDULE OF PUDDLE FLANGES				
SL. NO.	SLEEVE NO	DESCRIPTION OF PUDDLE FLANGE	PIPE SIZE	QTY
1.	N1	SUCTION HEADER	300MM	02
2.	N2	TEST LINE	100MM	02
3.	N3	DRAW OUT CONNECTION	150MM	02
4.	N4	DRAW IN CONNECTION	150MM	02

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

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



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Department of Industrial Policy and Promotion Ministry of Commerce & Industry Government of India

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Certification
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Design Consultant
Architectural Consultant
Proof Consultant
Structural
PEAC
Reviewed EPC drawing checked by PEAC and parameters have been checked to:
Issued by:
Employer / Employer's Engineer
Signed on behalf of PEAC
Date:

REVISIONS

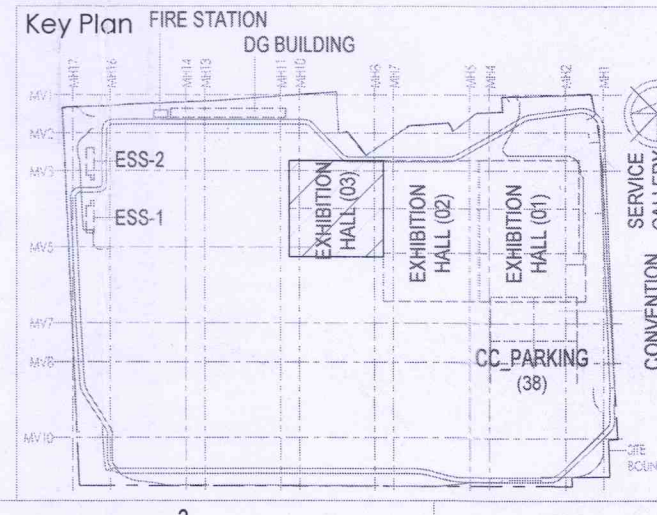
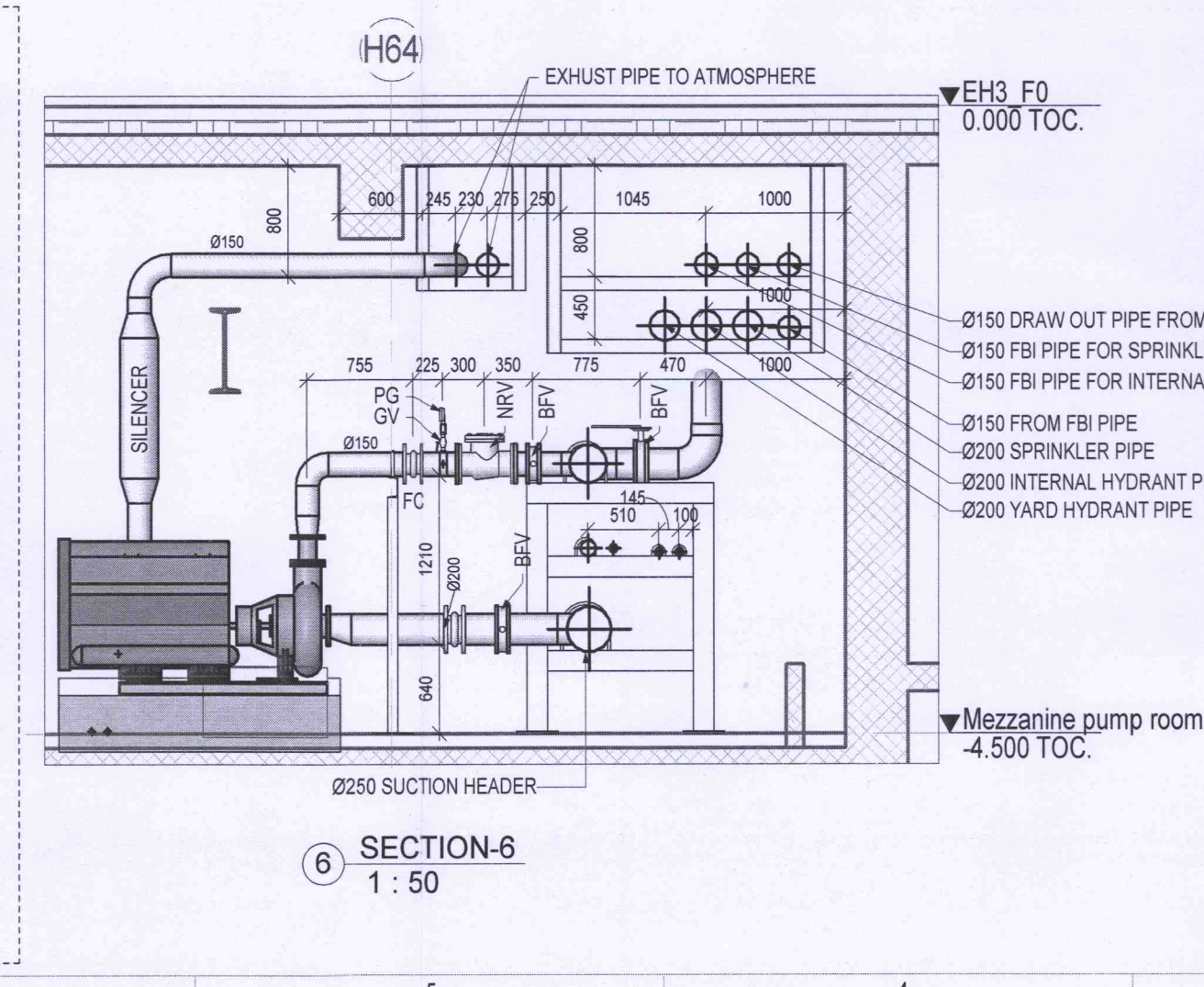
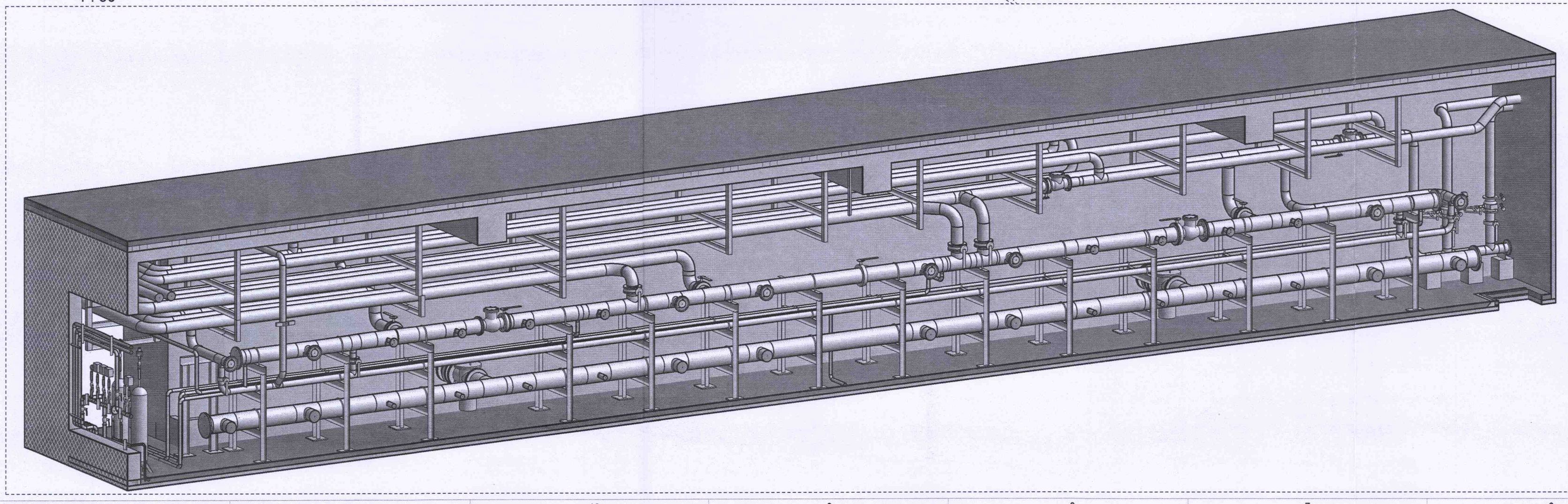
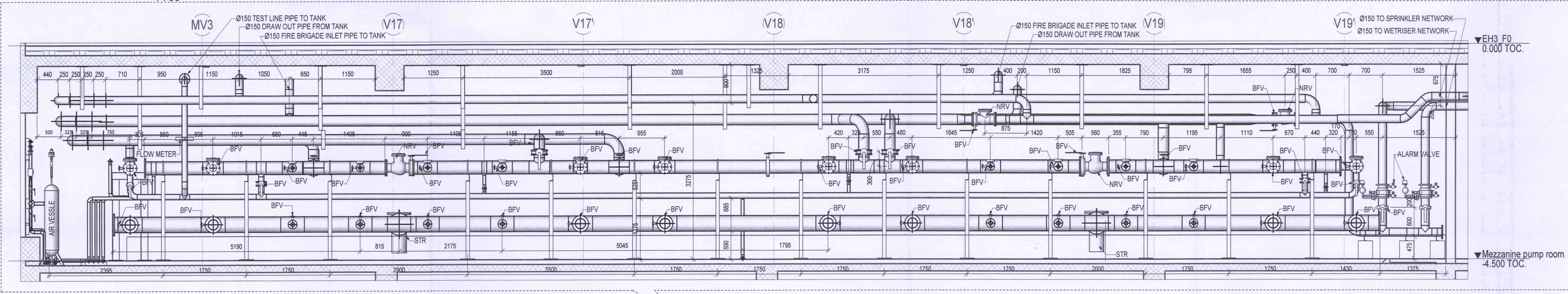
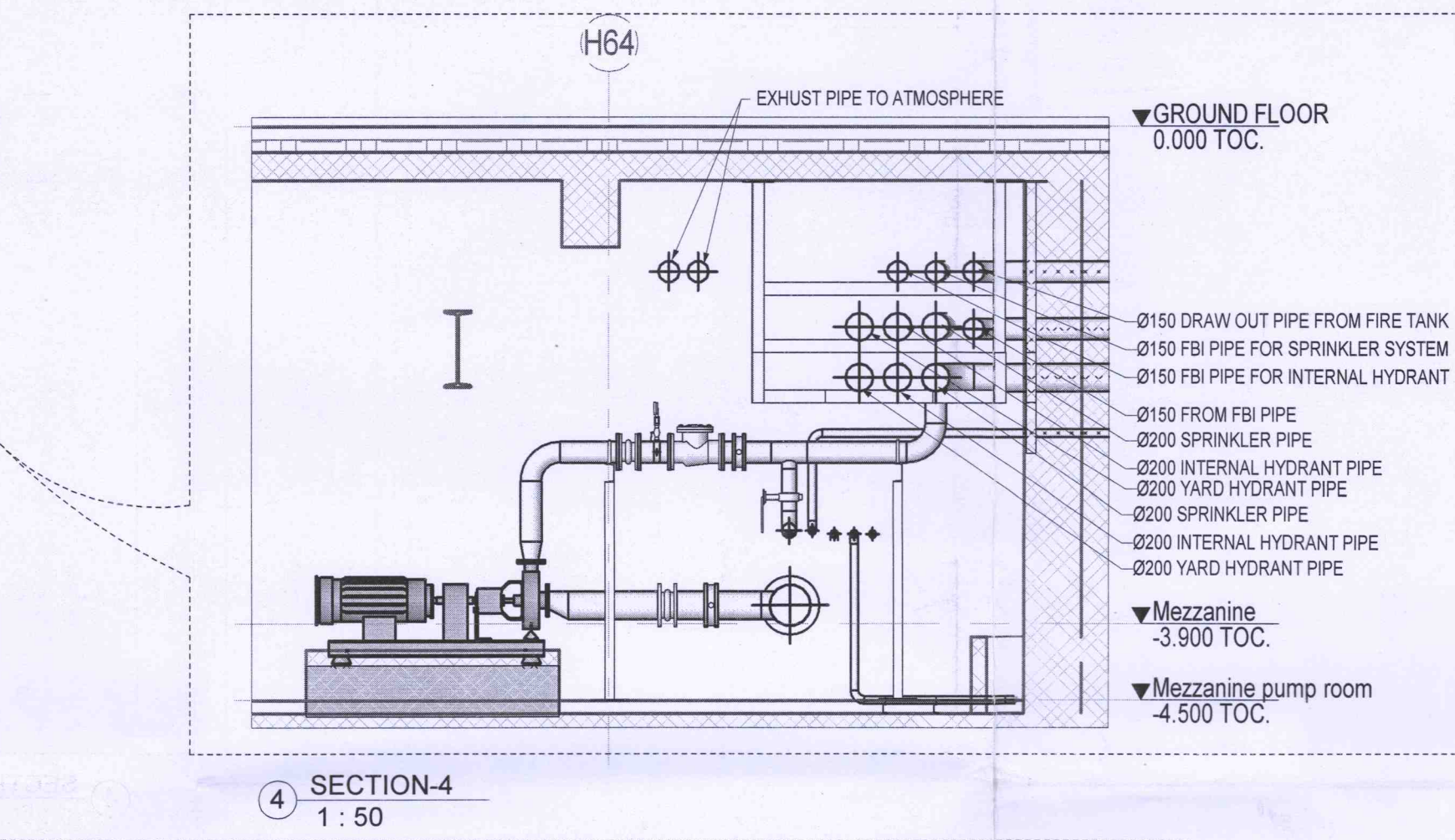
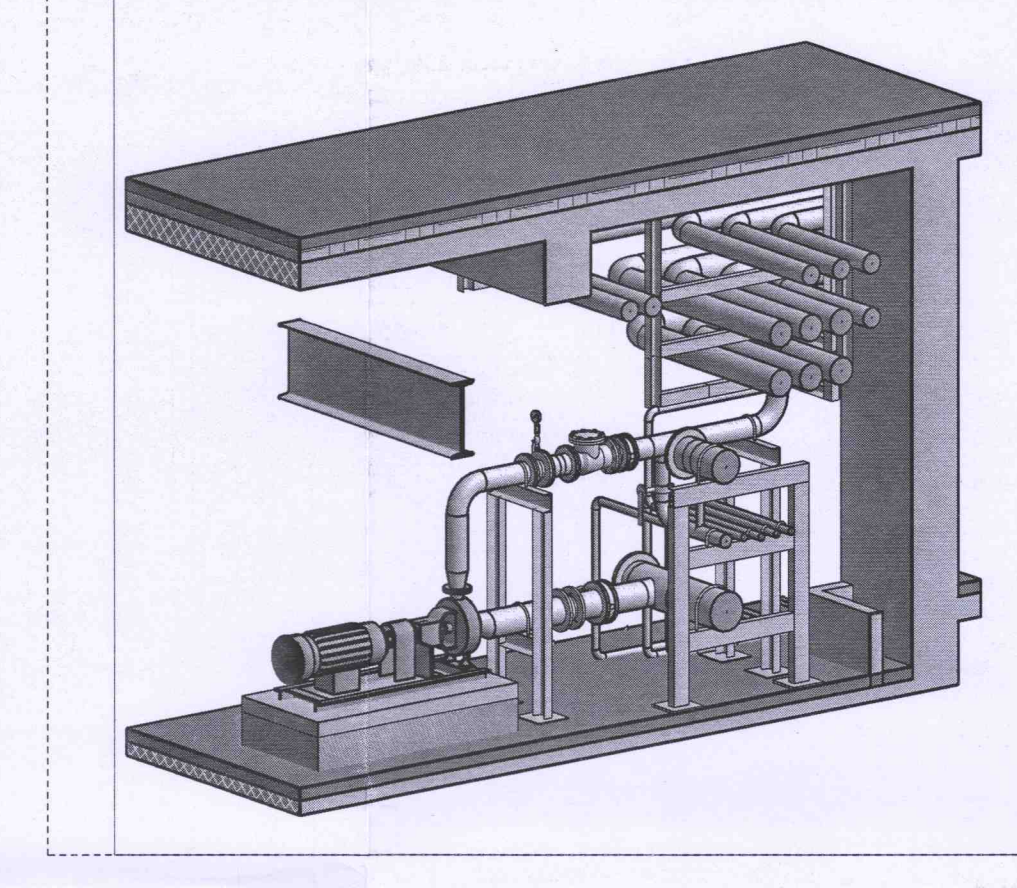
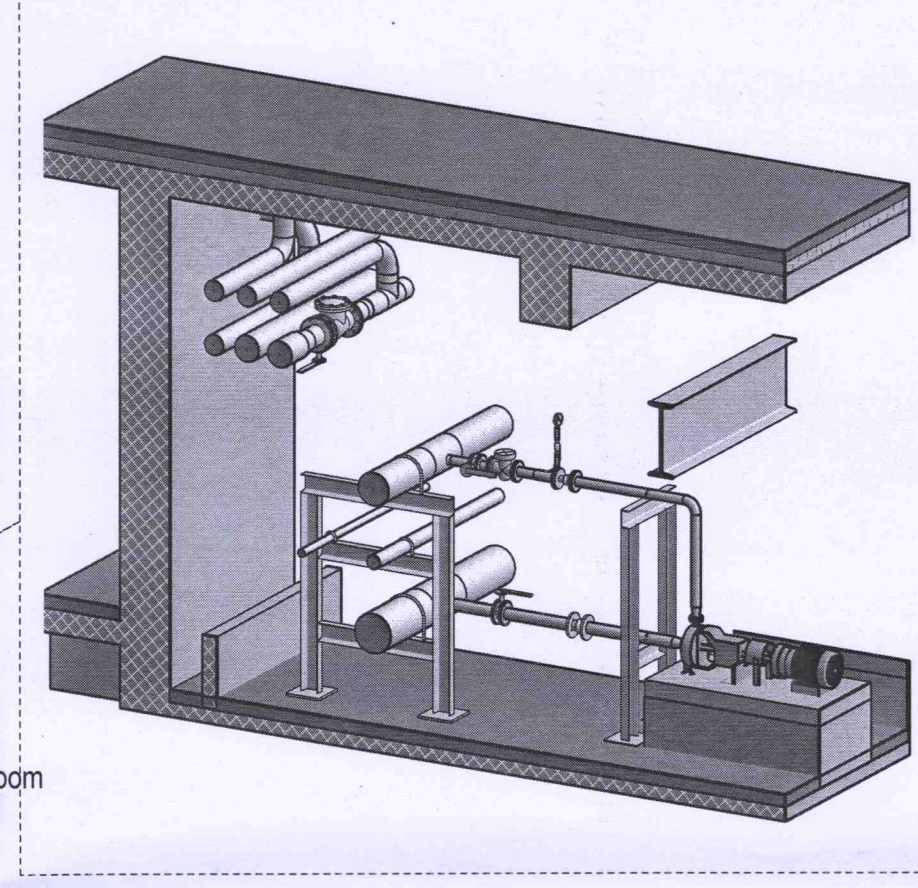
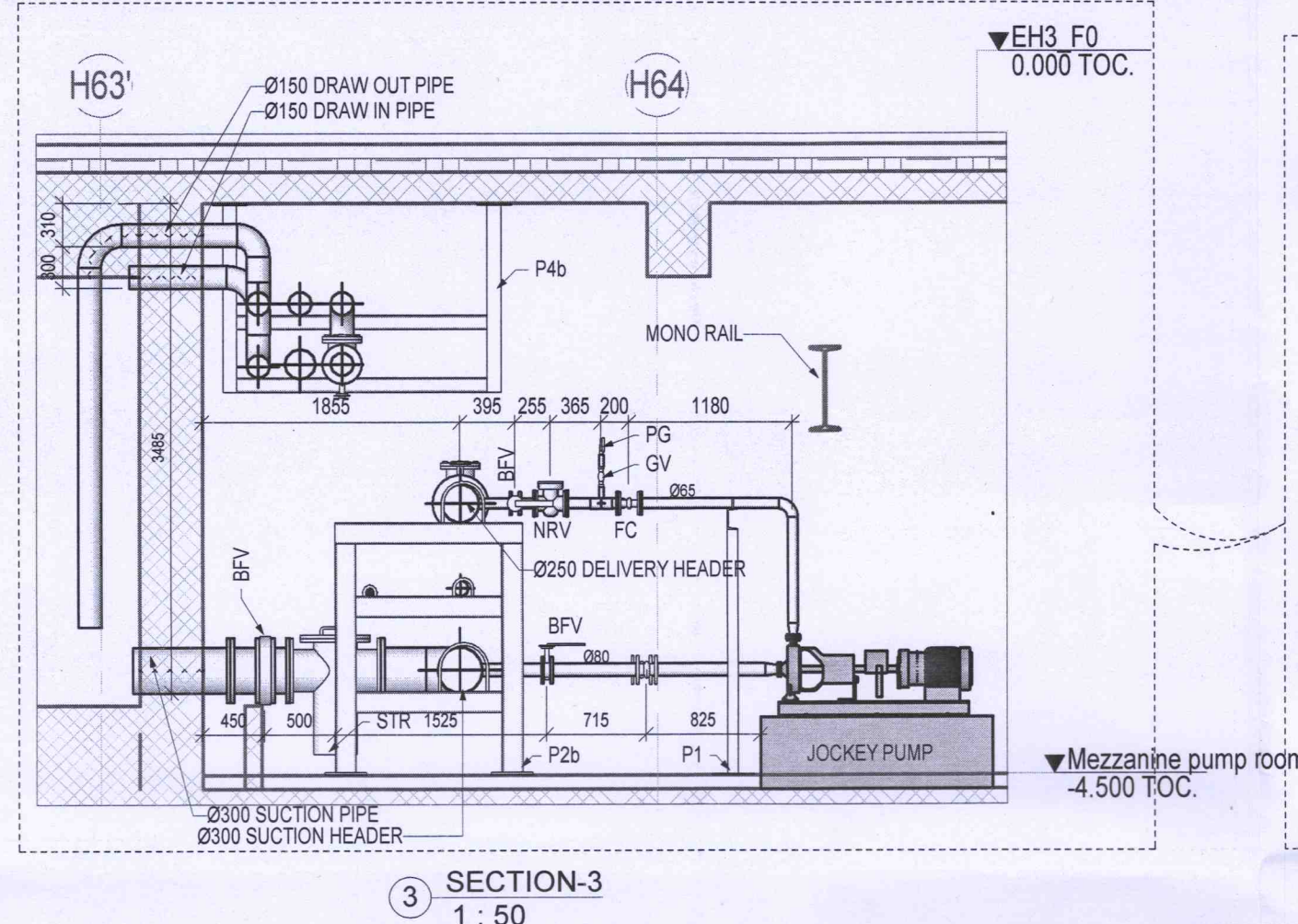
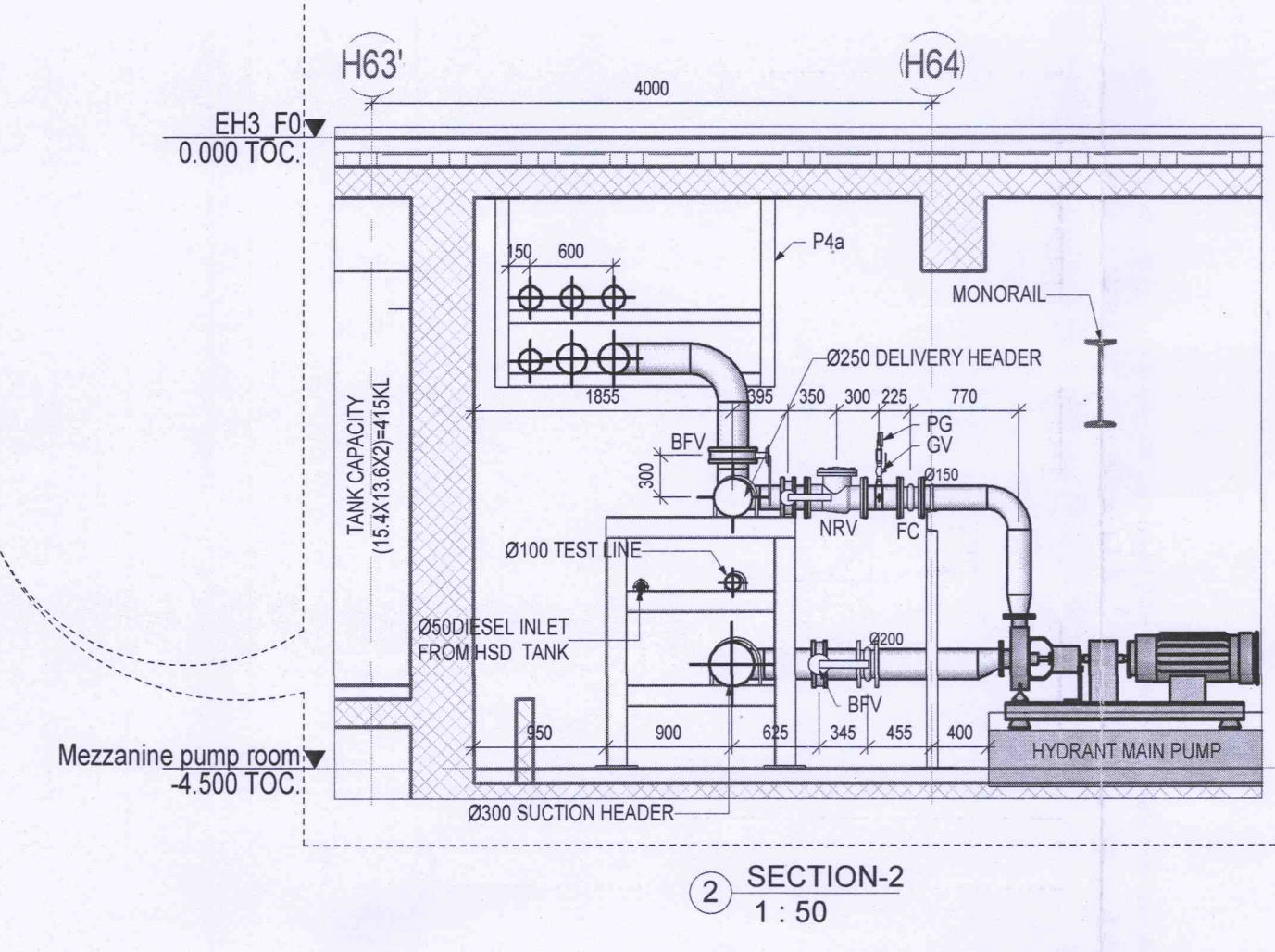
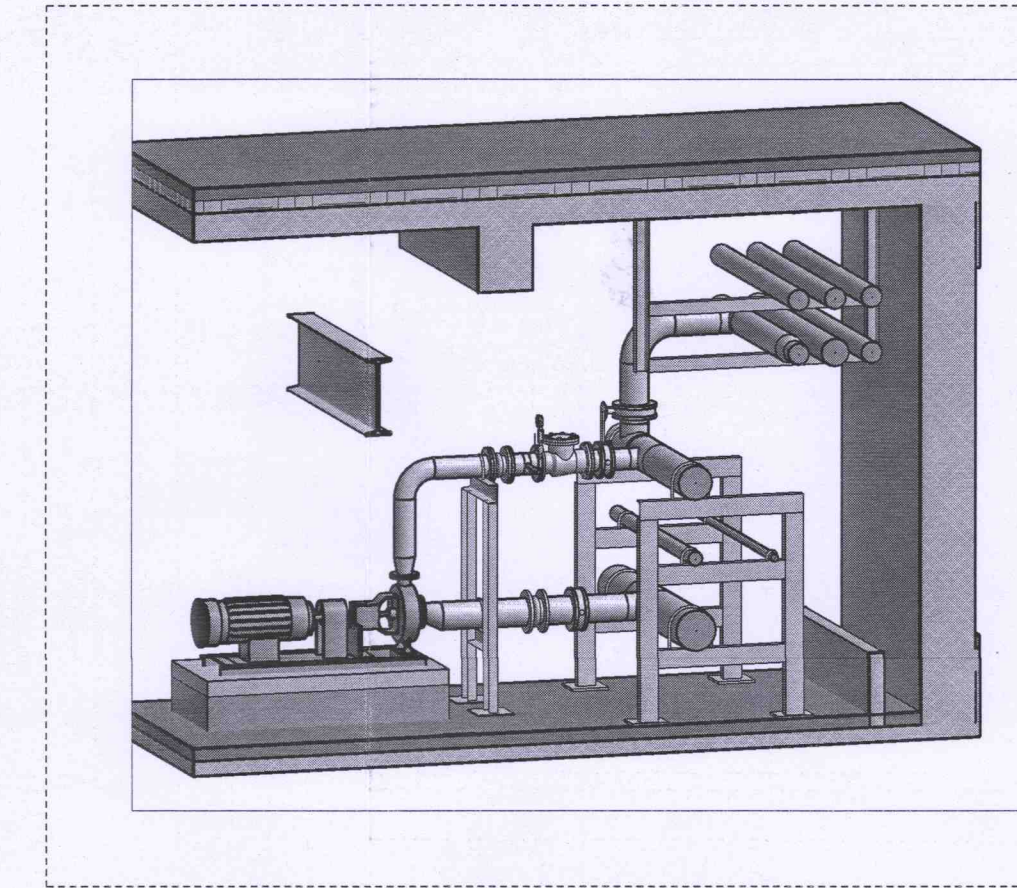
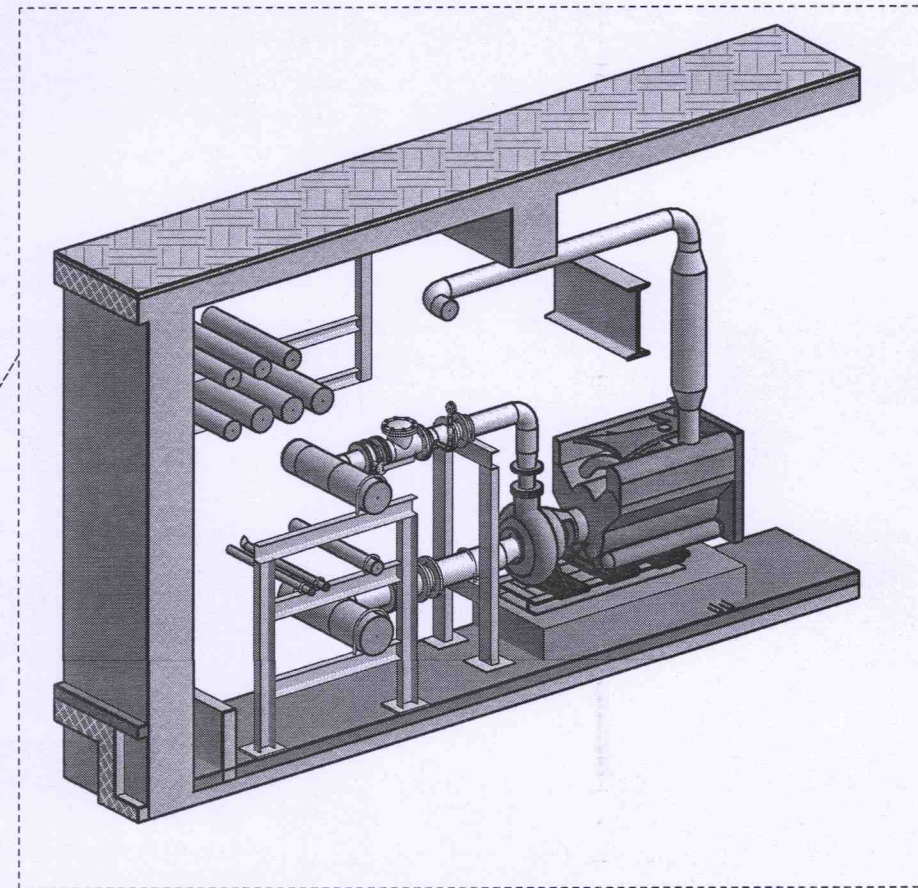
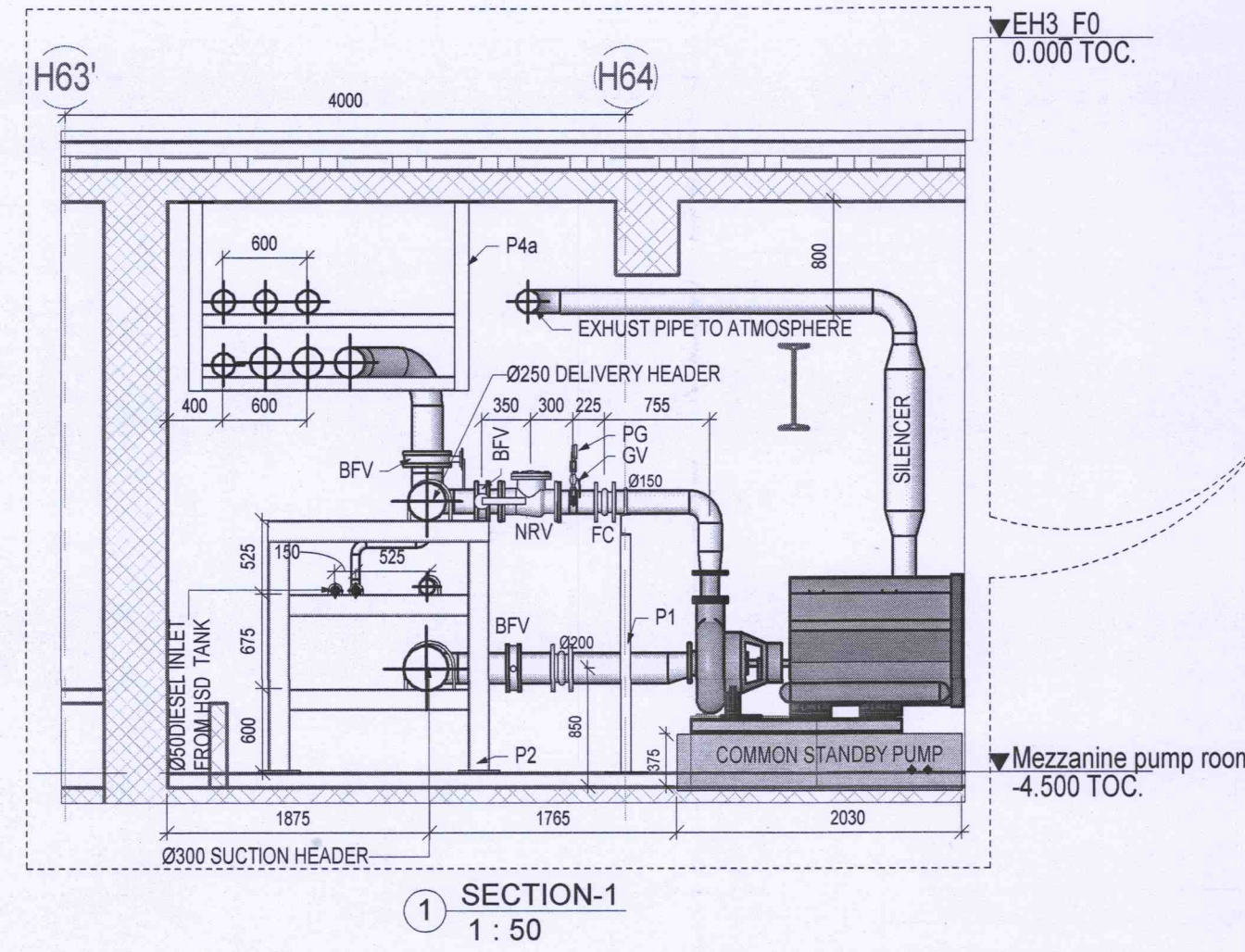
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1	ISSUED AS GOOD FOR CONSTRUCTION	16.01.19	INNV	SEN	PBI	SPN

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Buildings & Factories
JOB No : O17203
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 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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PEAC Reviewed GFC being prepared by Contractor and Employer that all preliminary aspects and parameters are adhered to:

Issued by:
Employer / Employer's Engineer of PEAC Date:

Revisions

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
1	FFS	20.11.18	UNV	SP1	P31	J.SPN
2	PPING					
3	PHE					
4	GIS					
5	GEOTECH					

EPC Contractor

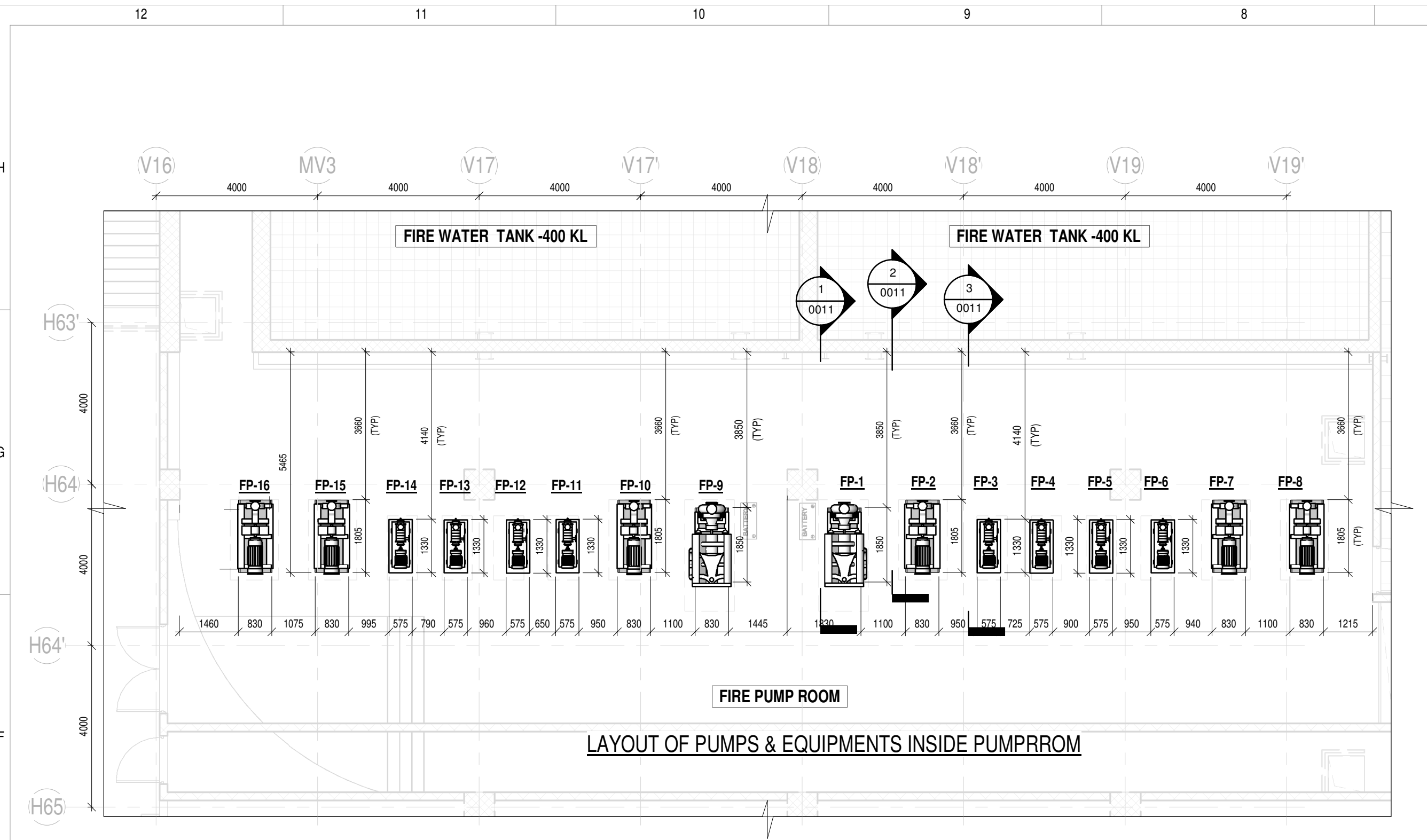
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Job No: O17203
Project Name: DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE SECTOR 25, DWARKA, NEW DELHI, INDIA
Drawing Status: GOOD FOR CONSTRUCTION (GFC)
Drawing No: F 03 0010 **Rev. No:** R0

Title: EXHIBITION HALL 3
SECTIONS OF FIREFIGHTING PUMP AND SUMP AT PUMP ROOM (SHEET 1 OF 2)

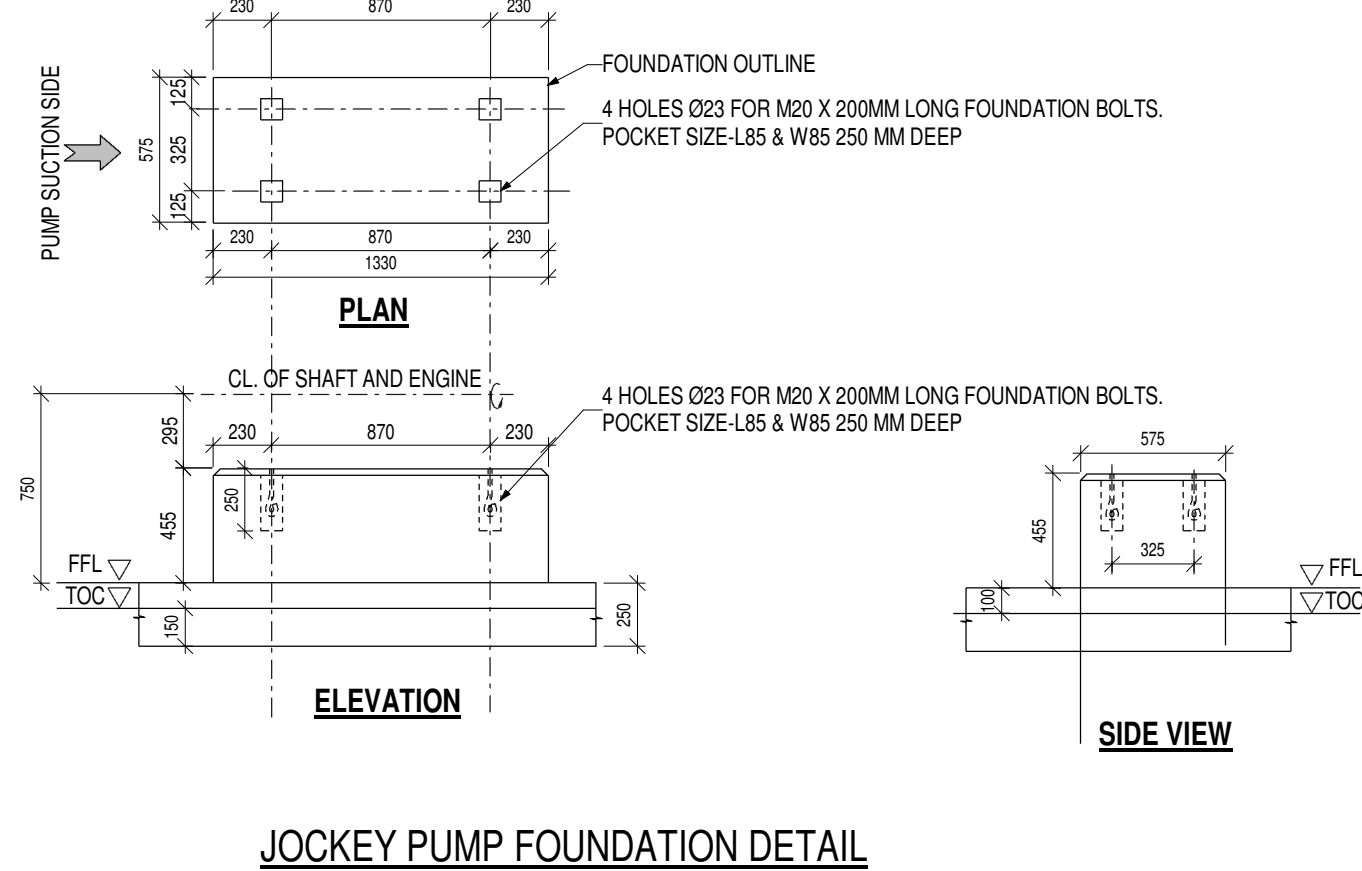
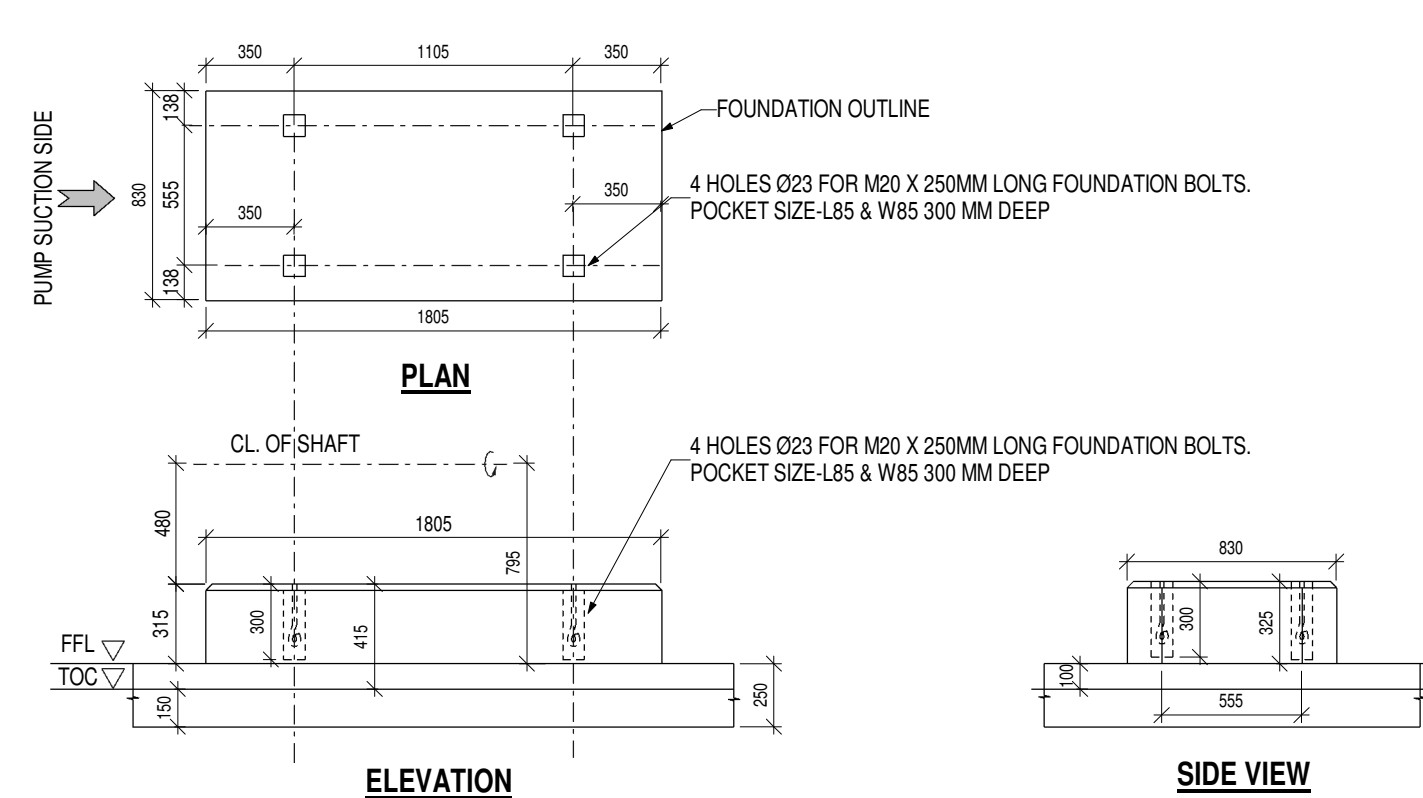
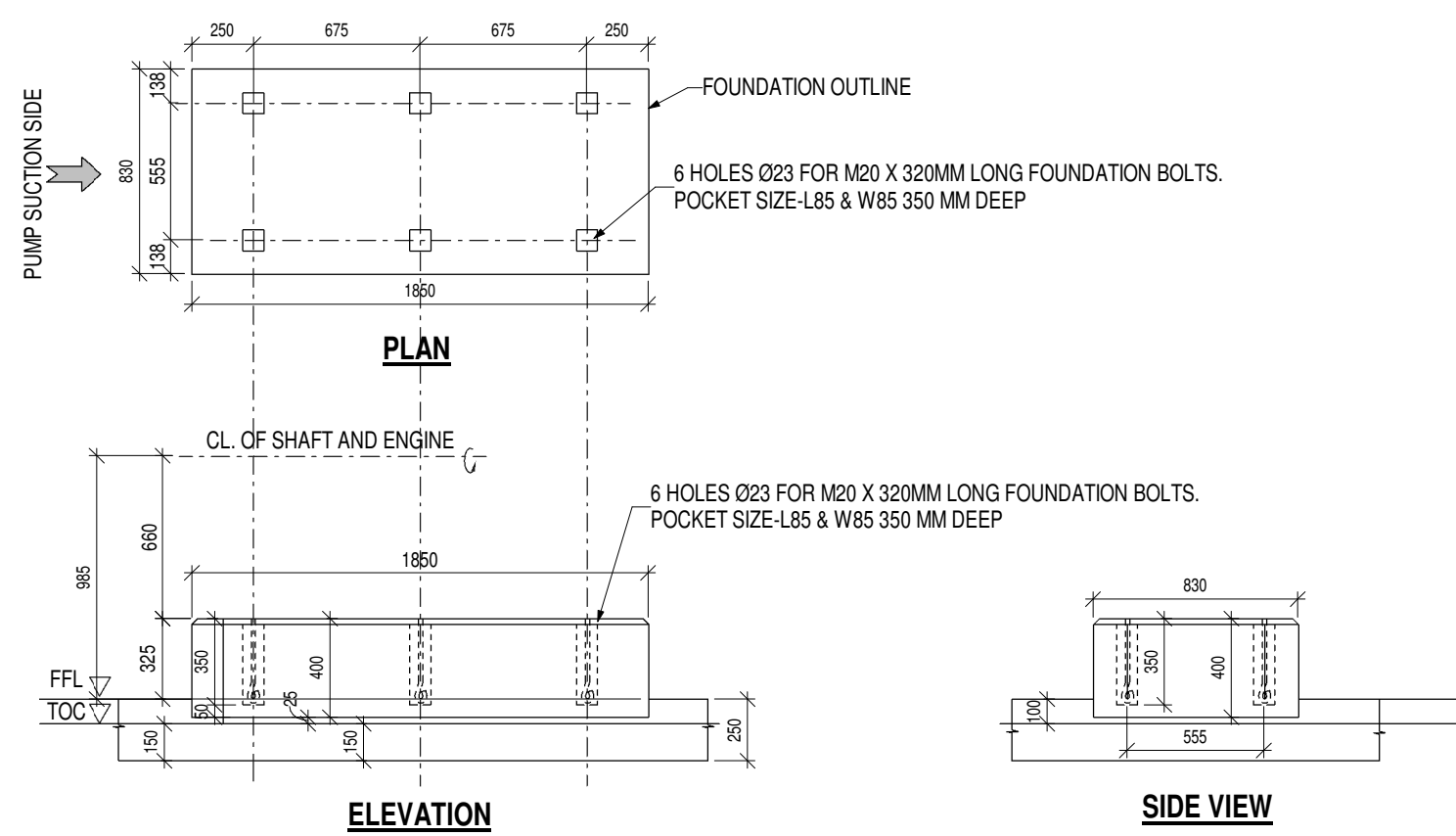
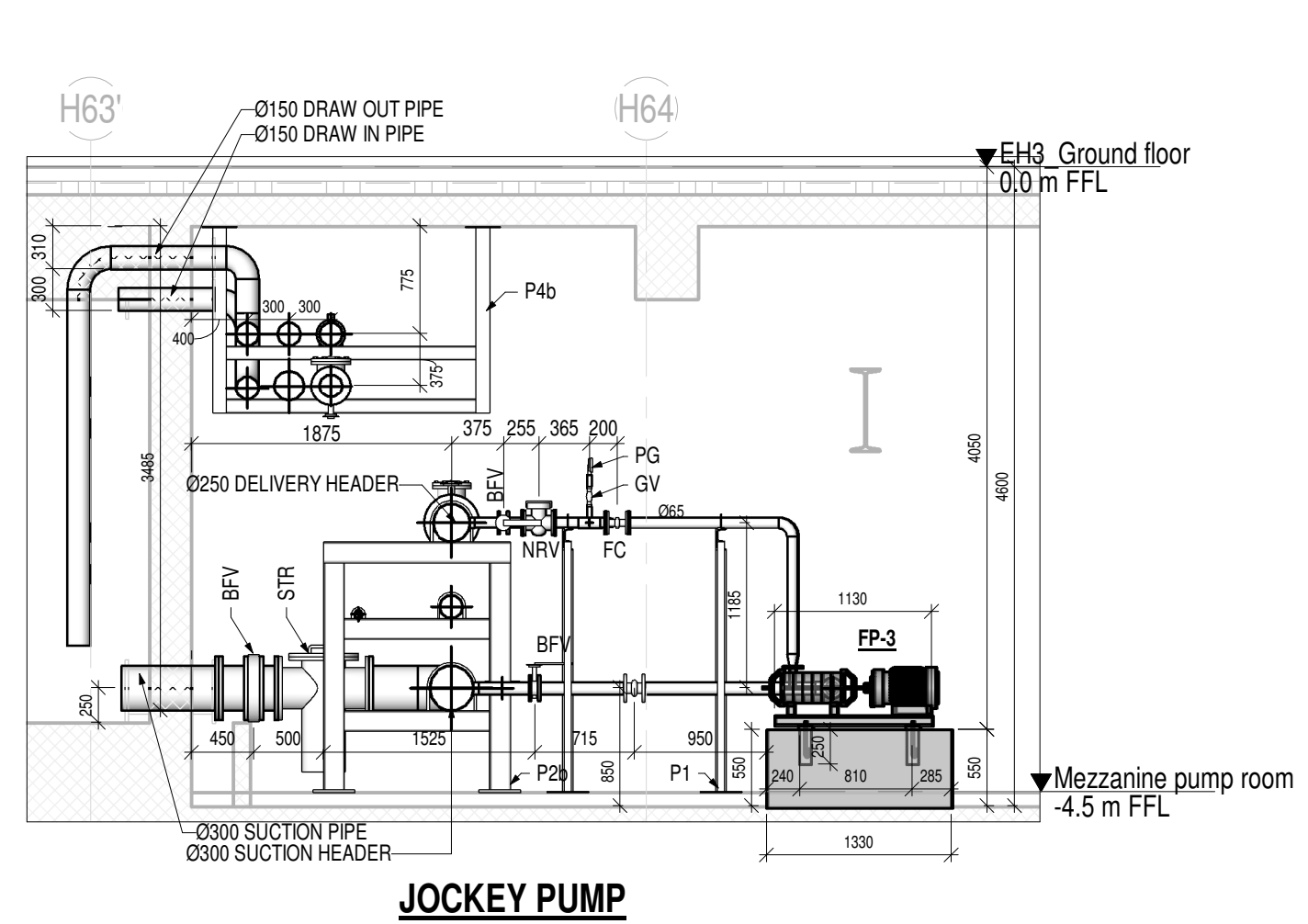
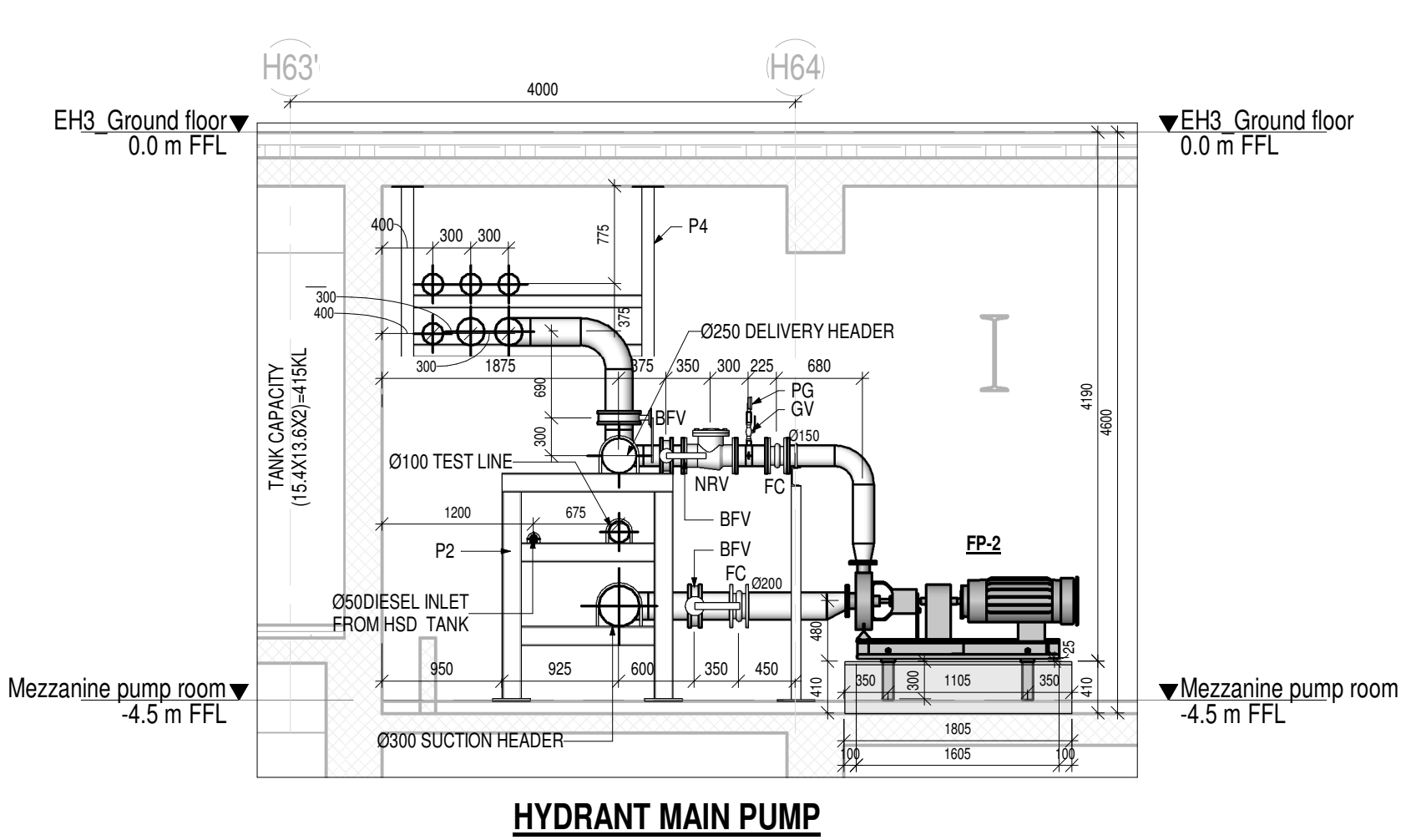
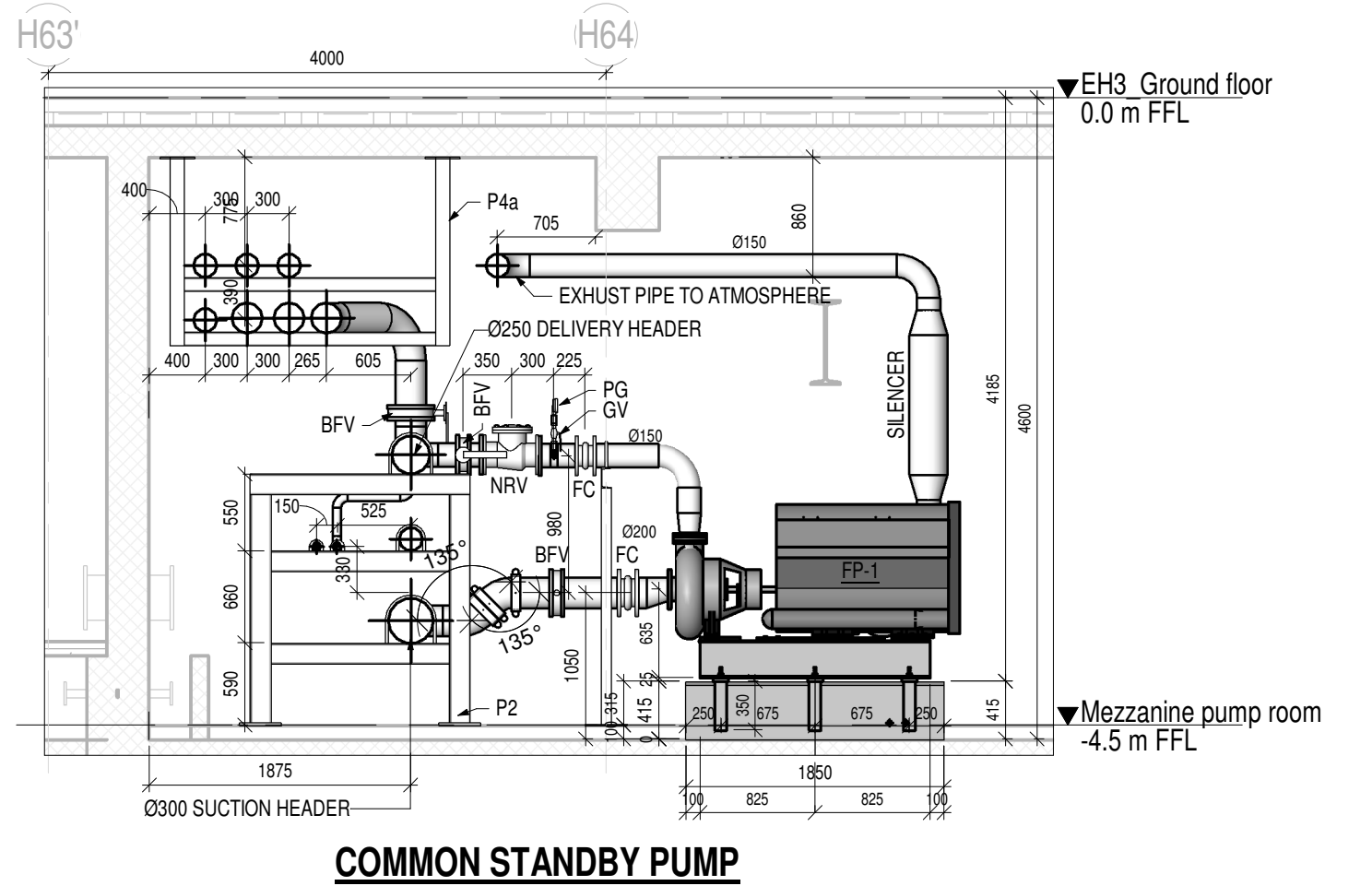
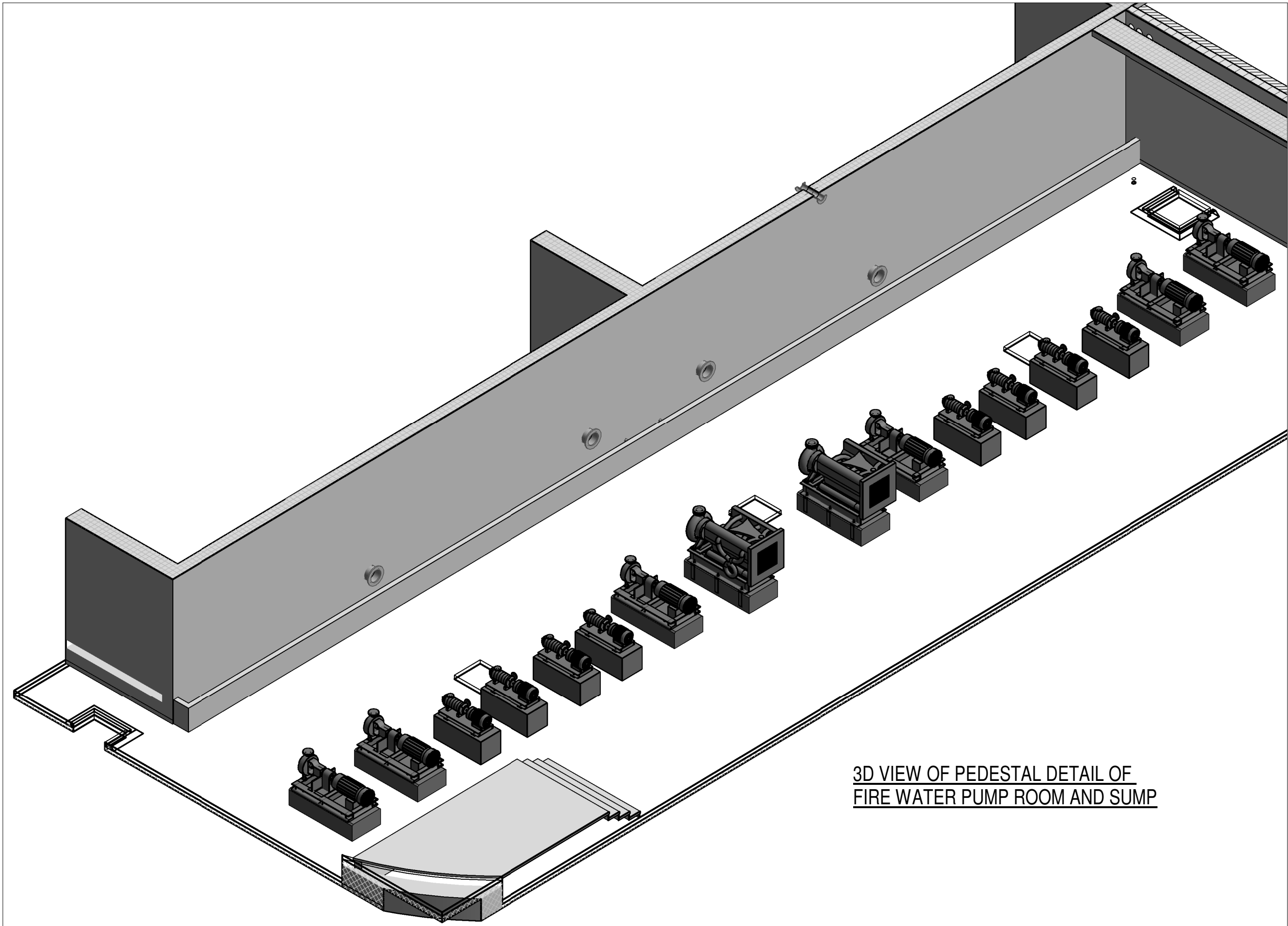
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O17203 - F - SP - 03 - GA - 0011 (LAYOUT OF PUMPS & EQUIPMENTS INSIDE PUMP ROOM)



PUMPS SCHEDULE						
SL. NO.	PUMP NO.	DESCRIPTION	SERVICE	CAPACITY (LPM)	HEAD MWC	No. OF PUMPS
1.	FP-1/9	COMMON STANDBY PUMP	COMMON SYSTEM	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

REVISION HISTORY :-	
1	REVISED AS PER LATEST PUMP GA DRAWING



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Employer's Engineer
Programme Management Consultant (PMC)
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Design Consultant
Architectural Consultant
Proof Consultant

Structural	MEP	ICT
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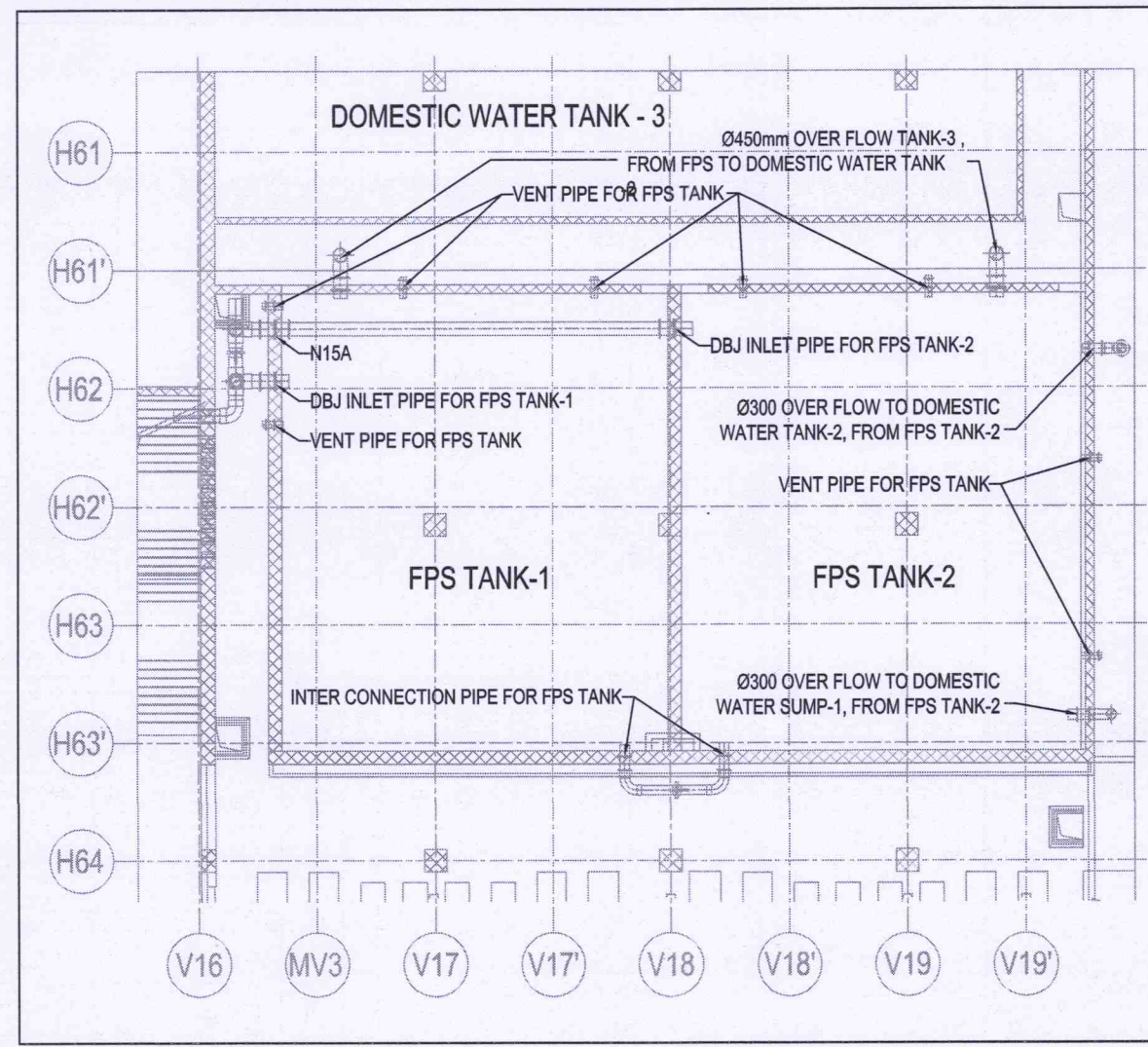
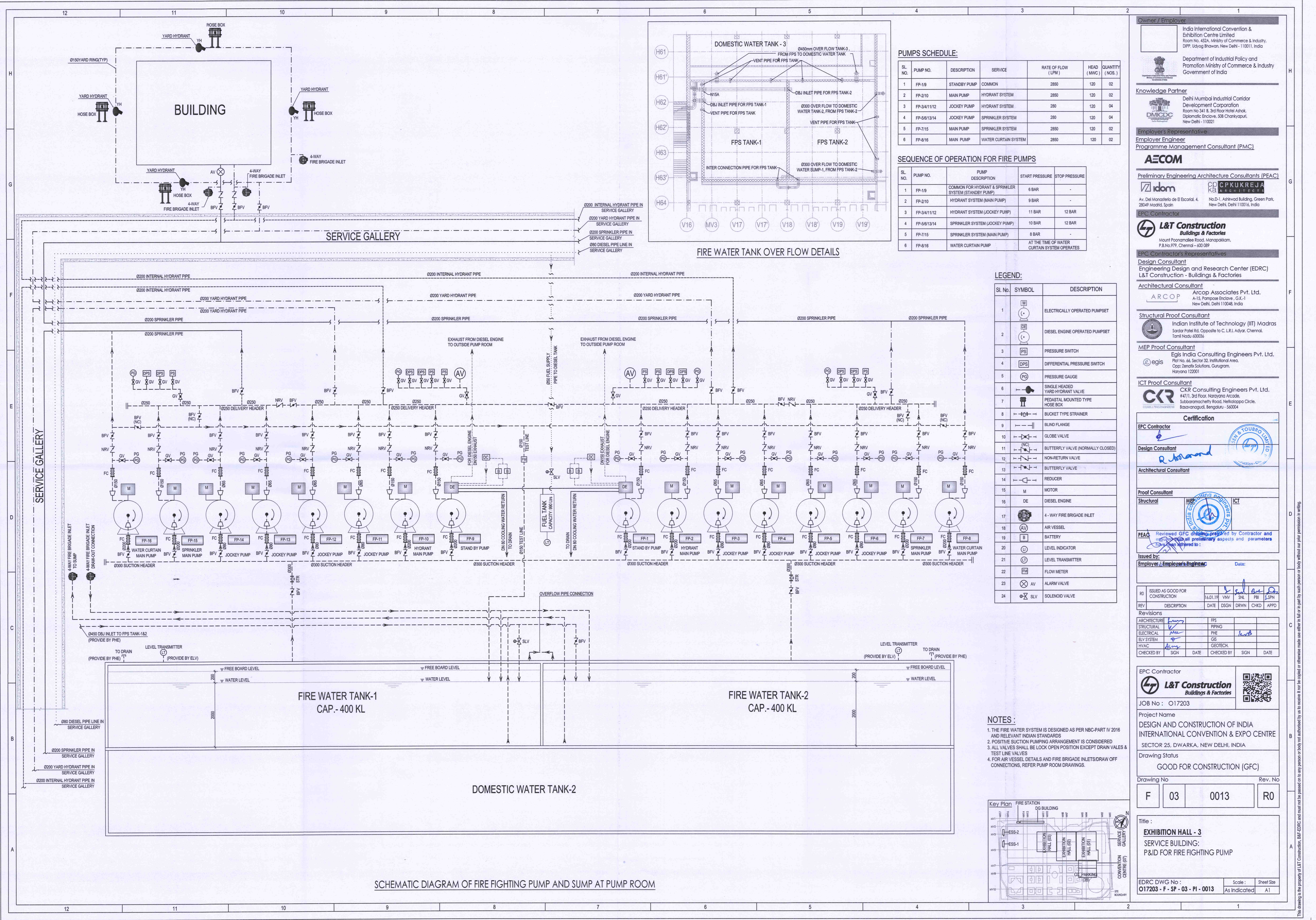
PEAC
Issued by:
Employer / Employer's Engineer

R1	REVISED AS PER REVISION HISTORY-1 AND ISSUED AS GOOD FOR CONSTRUCTION	08.09.20	VNV	VNV	PBI/SNA	SPN
REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
ARCHITECTURE						
STRUCTURAL	PIPING					
ELECTRICAL	PHE					
ELV SYSTEM	GIS					
HVAC	GEO TECH.					
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE	

EPC Contractor

L&T Construction
Buildings & Factories
JOB No : O17203
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 0011 R1
Rev. No
R1
Title :
EXHIBITION HALL 3
LAYOUT OF PUMPS & EQUIPMENTS INSIDE PUMP ROOM
EDRC DWG No :
O17203 - F - SP - 03 - GA - 0011
Scale
As indicated
Sheet Size
A1

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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

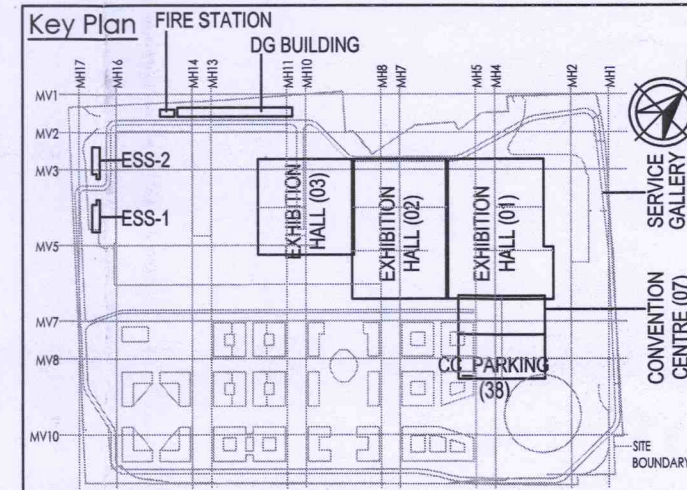
SL. NO.	PUMP NO.	PUMP DESCRIPTION	START PRESSURE	STOP PRESSURE
1	FP-1/9	COMMON FOR HYDRANT & SPRINKLER SYSTEM (STANDBY PUMP)	6 BAR	-
2	FP-2/10	HYDRANT SYSTEM (MAIN PUMP)	9 BAR	-
3	FP-3/4/11/12	HYDRANT SYSTEM (JOCKEY PUMP)	11 BAR	12 BAR
4	FP-5/6/13/14	SPRINKLER SYSTEM (JOCKEY PUMP)	10 BAR	12 BAR
5	FP-7/15	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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Design Consultant

Architectural Consultant

Proof Consultant

Structural

MEP

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Reviewed GFC drawing prepared by Contractor and approved by all preliminary aspects and parameters. This has been adhered to.

Issued by:
Employer / Employer's Engineer

Revision

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

EPC Contractor

L&T Construction
Buildings & Factories

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

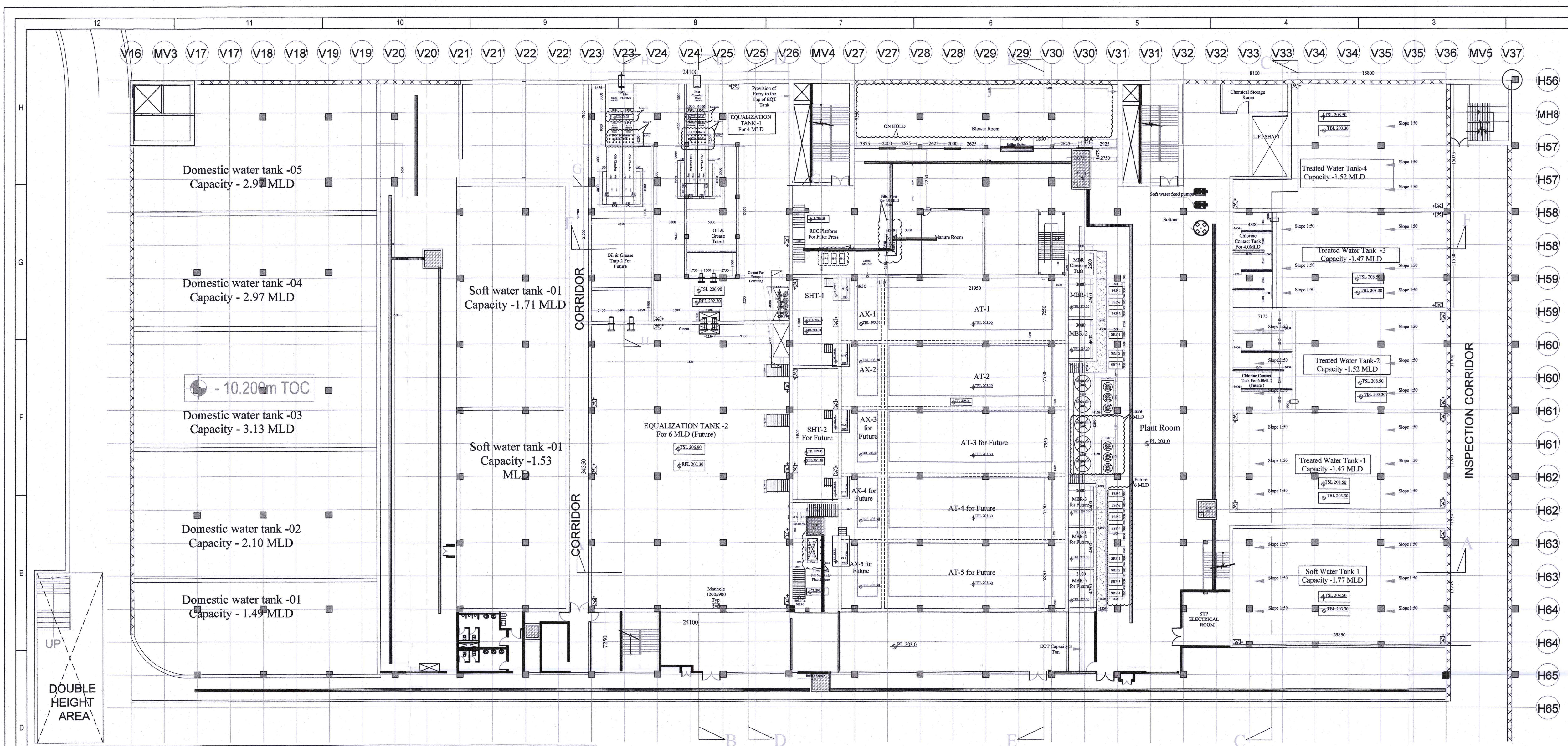
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EXHIBITION HALL - 3
SERVICE BUILDING:
P&ID FOR FIRE FIGHTING PUMP

EDRC DWG No :
017203 - F - SP - 03 - PI - 0013

Scale :
As Indicated

Sheet Size
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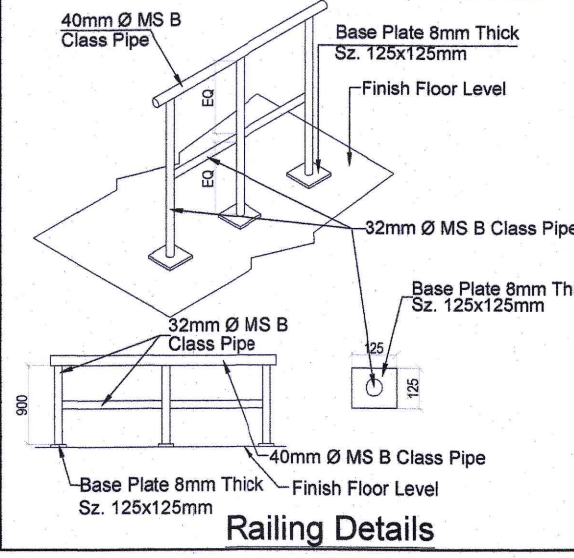
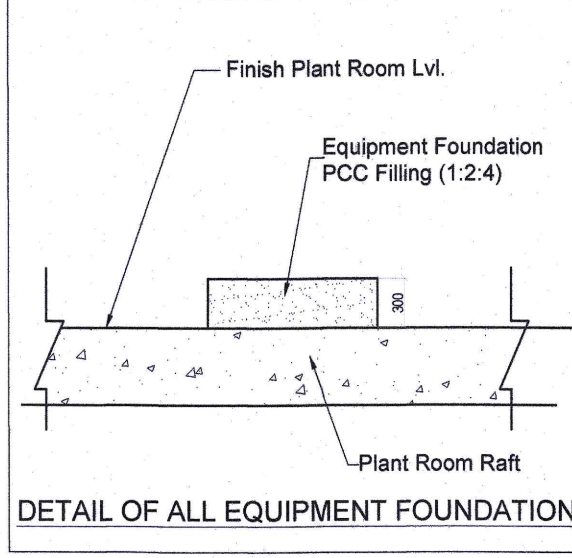
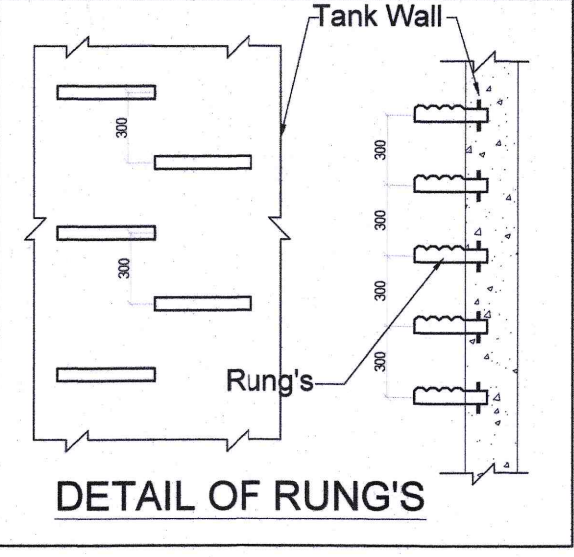
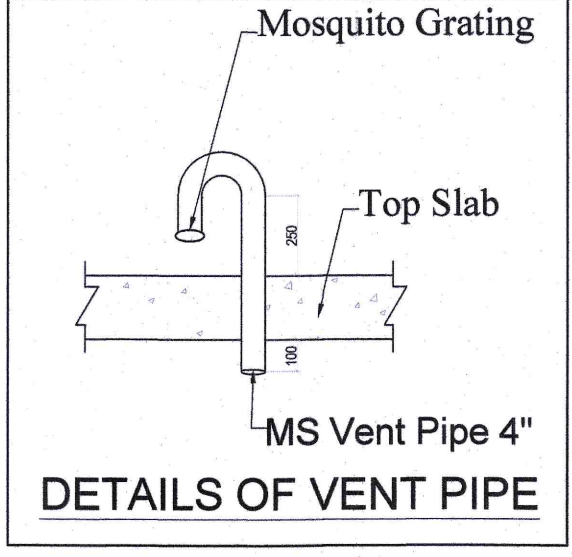
SCHEMATIC DIAGRAM OF FIRE FIGHTING PUMP AND SUMP AT PUMP ROOM



List Of STP Civil Unit 2x2.0MLD=4MLD (6MLD Future)

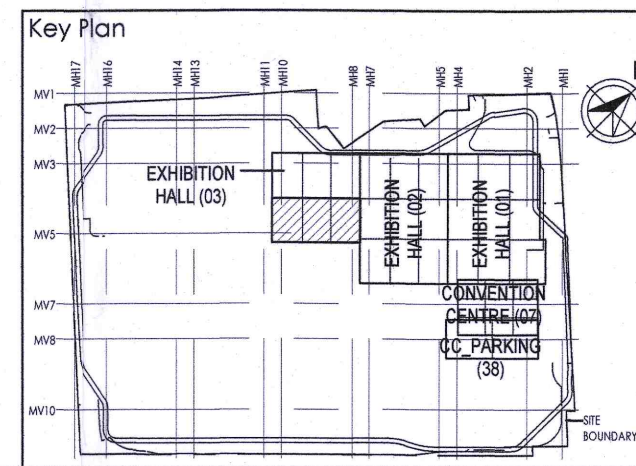
Mark	Description	Area	Length (M)	Width (M)	Height (M)	Water Depth (M)	Phase -1 Volume (M³)	Phase -2 Volume (M³)
IC	Inlet Chamber	0.0	3.0	3.0	2.1	0.5	4.50	
SC-1	Screen Chamber-1	0.0	4.0	1.0	0.8		0.00	
SC-2	Screen Chamber-2	0.0	4.0	1.0	0.8			
O>-1	Oil & Grease Trap-1		15.65	6.0	2.85	15	140.85	
O>-2	Oil & Grease Trap-2 For Future		21.20	7.25	2.85	15		230.55
EQT-1	Equalization Tank-1	690.235	28.70	24.05	4.15	31	2139.73	
	Total EQT Vol 2089 including O&G, Actual vol-1653 m³						0.00	
EQT-2	Equalisation Tank-2 For Future	0.0	34.350	23.40	4.15	31		2491.75
AX-1	Anoxic Tank-1		4.85	7.6	5.75	50	184.30	
AX-2	Anoxic Tank-2		4.85	7.6	5.75	50	184.30	
AX-3	Anoxic Tank-3 For Future		4.85	7.6	5.75	50		184.30
AX-4	Anoxic Tank-4 For Future		4.85	7.6	5.75	50		184.30
AX-5	Anoxic Tank-5 For Future		4.85	7.950	5.75	50		192.79
AT-1	Aeration Tank-1		22.0	7.6	5.75	48	802.56	
AT-2	Aeration Tank-2		22.0	7.6	5.75	48	802.56	
AT-3	Aeration Tank-3 For Future		22.0	7.6	5.75	48		802.56
AT-4	Aeration Tank-4 For Future		22.0	7.6	5.75	48		802.56
AT-5	Aeration Tank-5 For Future		22.0	7.950	5.75	48		839.52
MBR-1	MBR Tank-1		3.1	4.70	4.0	36	52.45	
MBR-2	MBR Tank-2		3.1	4.75	4.0	36	53.01	
MBR-3	MBR Tank-3 For future		3.1	4.7	4.0	36		52.45
MBR-4	MBR Tank-4 For future		3.1	4.75	4.0	36		53.01
MBR-5	MBR Tank-5 For future		3.1	4.75	4.0	39		53.01
SHT-1	Sludge Holding Tank-1		10.60	5.5	5.550	46	268.18	
SHT-2	Sludge Holding Tank-2 for Future		15.8	5.5	5.550	48		399.74
CCT	Chlorine Contact Tank(For 4.0 MLD)		4.8	11.70	2.3	18	101.09	
CCT	Chlorine Contact Tank(For 6.0 MLD)		7.2	11.70	2.3	18	151.63	

Abbreviation	
Mark	Description
PL	Plant Room Level
RFL	Raft Floor Level
TTL	Tank Top Level
TBL	Tank Bottom Level



NOTES

- 1.Refer DWG Number O17203-U-SP-03-IP-0010,11,12,15 For Domestic and Treated Water Sump and Pump room Details
- 2.Refer Drawing Number O17203-V-SP-03-VS-0007, O17203-V-SP-03-VS-0008,O17203-V-SP-03-VS-0001 for Mechanical Ventilation Details.
- 3.Refer Drawing Number O17203-EE-SP-03-EE-0005 Electrical Cable tray details



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