



SYMBOLS - PIPING, VALVES AND EQUIPMENT	
	PROCESS LINE
	AIR LINE
	SIGNAL
	MANUAL BUTTERFLY VALVE
	NON-RETURN VALVE
	SUBMERSIBLE PUMP
	SUBMERSIBLE MIXER
	DECANTER PUMP
	AIR BLOWER
	CHEMICAL DOSING PUMP
	DIFFUSERS
	CHEMICAL TANK
	SCREEN
	LEVEL SWITCH
	PRESSURE GAUGE
	MOTORIZED VALVE

EQUIPMENT LIST:

E-1AB	EQT PUMP A/B	E-11	CHLORINE DOSING PUMP
E-2AB	COMBINED BLOWER A/B	E-12	EQT DIFFUSERS
E-3AB	ANOXIC MIXER 1A/B	E-13	ASD DIFFUSERS
E-4AB	ANOXIC MIXER 2A/B	E-14	SBR-1 DIFFUSERS
E-5	WAS PUMP 1	E-15	SBR-2 DIFFUSERS
E-6	WAS PUMP 2	E-16	MANUAL BASKET SCREEN
E-7	DECANTING PUMP 1	E-17	RAW SEWAGE PUMP
E-8	DECANTING PUMP 2	E-18	PRELIM DIFFUSERS
E-9	PAC DOSING PUMP 1	E-19	REUSE WATER PUMP
E-10	PAC DOSING PUMP 2		

VALVE LIST:

V-1AB	EQT PUMP A/B NRV	V-12	PAC DOSING PUMP 1 NRV
V-2AB	EQT PUMP A/B RAW SEWAGE MOTORIZED VALVE	V-13	PAC DOSING PUMP 2 NRV
V-3	EQT AIR LINE BUTTERFLY VALVE	V-14	CHLORINE DOSING PUMP NRV
V-4	SHT AIR LINE BUTTERFLY VALVE	V-15	EQT PUMP ISOLATION VALVE
V-5	SBR-1 AIR LINE MOTORIZED VALVE	V-16	RAW SEWAGE PUMP NRV
V-6	SBR-2 AIR LINE MOTORIZED VALVE	V-17	PRELIM AIR LINE VALVE
V-7AB	COMBINED BLOWER A/B NRV	V-18	REUSE WATER PUMP FOOT VALVE
V-8	WAS PUMP 1 NRV	V-19	REUSE WATER PUMP FLOW REGULATION VALVE
V-9	WAS PUMP 2 NRV	V-20	DECANTING PUMP 1 FLOW REGULATION VALVE
V-10	DECANTING PUMP 1 NRV	V-21	DECANTING PUMP 2 FLOW REGULATION VALVE
V-11	DECANTING PUMP 2 NRV		

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Pr-01

PROCESS & INSTRUMENTATION DIAGRAM

NTS

	UNIT 307, ECG BUILDING, GENERAL AVENUE TANDANG BORA, QUEZON CITY 1116 PH	DESIGN ENGINEER: ENGINEER'S NAME	PROJECT: JHMC WASTE WATER TREATMENT PLANT	CLIENT: JOHN HAY MANAGEMENT CORPORATION	REVISIONS: <table border="1" style="font-size: 8px; width: 100%;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ORIGINAL ISSUE</td> <td>-</td> </tr> <tr> <td>1.1</td> <td></td> <td>-</td> </tr> <tr> <td>1.2</td> <td></td> <td>-</td> </tr> <tr> <td>1</td> <td></td> <td>-</td> </tr> </tbody> </table>	NO.	DESCRIPTION	DATE	0	ORIGINAL ISSUE	-	1.1		-	1.2		-	1		-	CONTRACT NO.: WW-22-JHMC-DC-05 STAGE: CONCEPT DESIGN
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SERVICES OFFERED: PLUMBING DESIGN PLUMBING WORKS STRUCTURAL DESIGN ENGINEERING DESIGN AND REVIEW EQUIPMENT AND MATERIAL SELECTION ELECTRICAL DESIGN & CALCULATIONS	PTR NO.: DATE ISSUED: PLACE ISSUED:	PRC NO.: VALID UNTIL: PLACE ISSUED:	ADDRESS: CAMP JOHN HAY, BAGUO	CLIENT'S NAME	SHEET CONTENTS: PIPING AND INSTRUMENTATION DIAGRAM	SCALE: NTS DATE: 03/24/2023															

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