














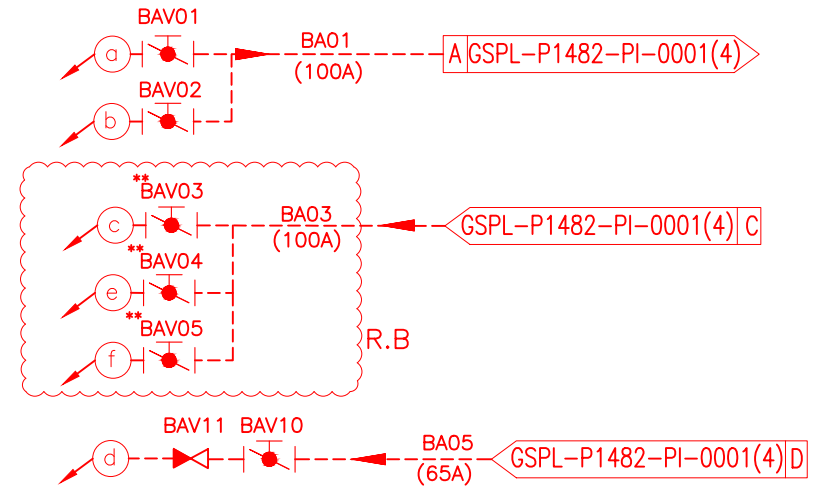
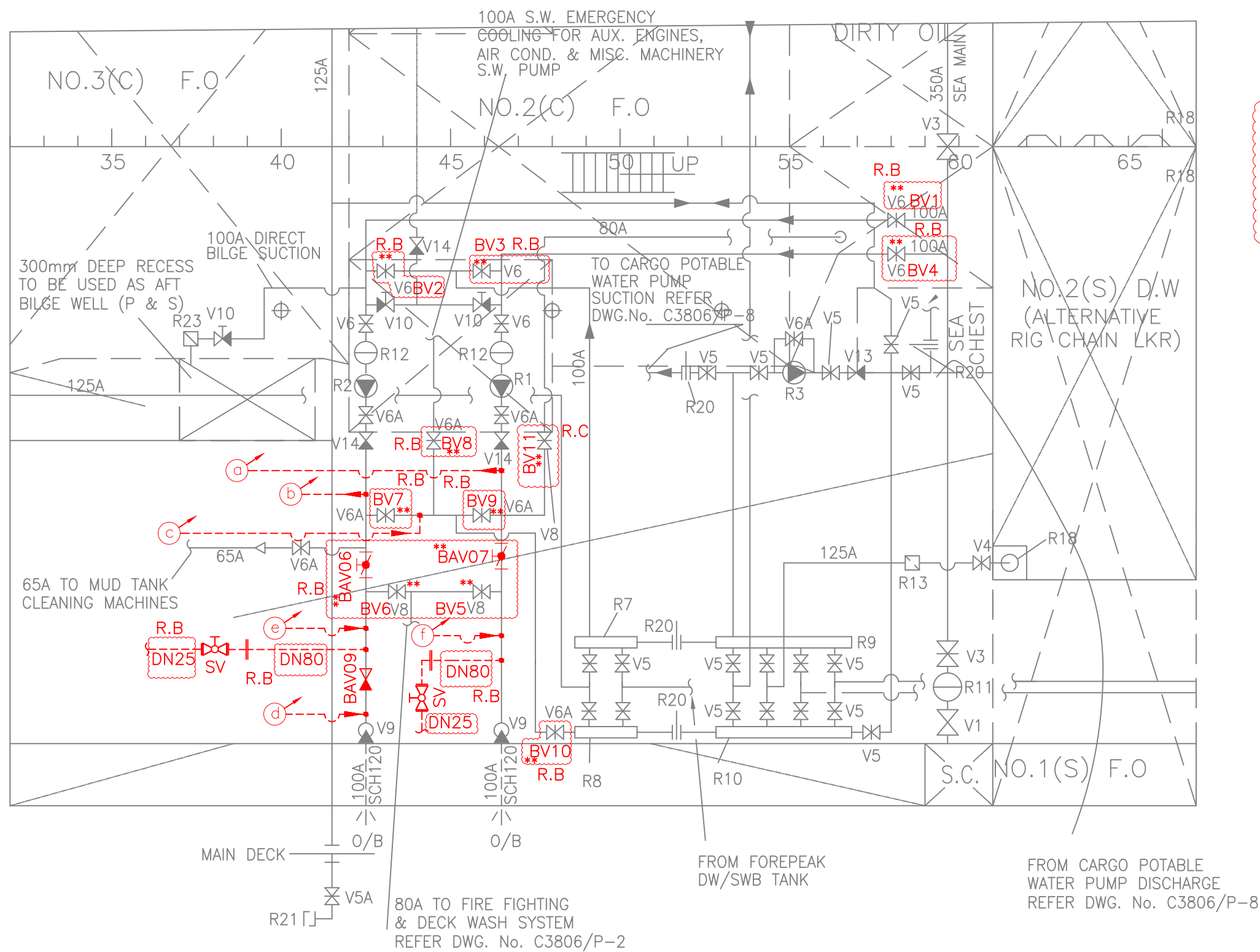
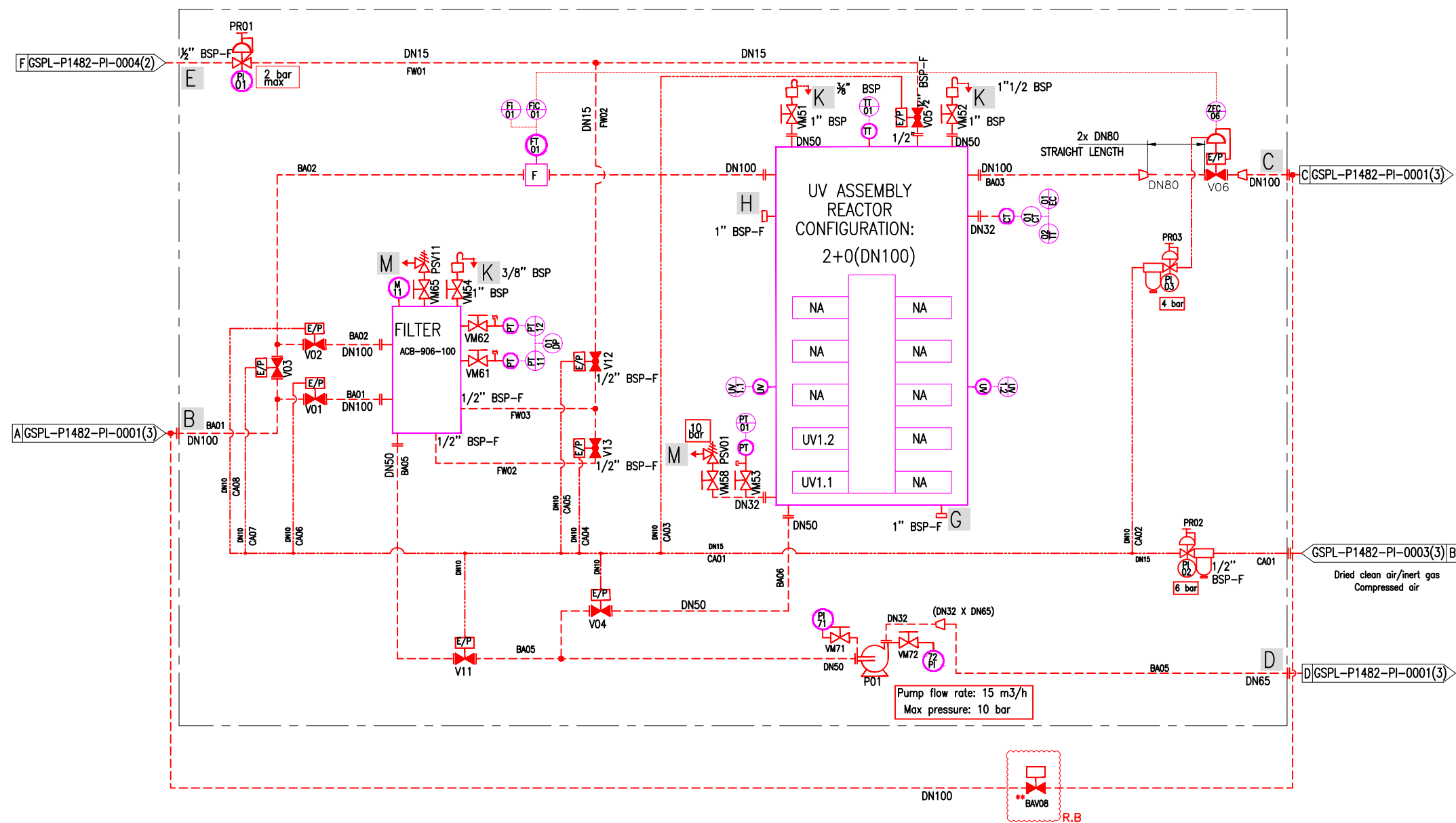


Symbol	Name	NOTES	
——	BWTS Line	1	VALVE ACTUATION MEANS IS PROVIDED VIA INSTRUMENT AIR
----	BWTS Control & Auxiliary Air Line	2	QUALITY AND PRESSURE OF COMPRESSED AIR SHALL MEET BWTS MAKER STANDARDS
	Pressure reducing valve	3	VALVES MARKED WITH ** SYMBOL TO BE MONITORED DURING BWTS OPERATION.
	Electropneumatic ball valve	4	VALVE BAV08 ACT AS BYPASS VALVE FOR THE BWTS.
	Electropneumatic butterfly valve	5	THE SPILLAGE LINE SUITABLY ROUTED TO NEAR BILGE WELL/SCUPPER
	Manual valve	6	REFER BIOSEA BWTS (OMSM)
	Electropneumatic control valve		
	Pressure safety valve		
	Vent		
	Sensor		
	Flowmeter		
	Centrifugal pump		
	Flexible sleeve		
	Ejector or eductor		
	Butterfly valve		
	Check Valve		
	Air Filter		

EQUIPMENT/PUMP DETAILS					REFERENCE DRAWING/DOCUMENT												
ITEM	TYPE	CAPACITY	DIFF. HEAD (BAR)	LOCATION													
BILGE/BALLAST /FIRE PUMP	CENTRIFUGAL PUMP	60m³/hr	6	ENGINE ROOM													
BILGE/G.S/FIRE PUMP	CENTRIFUGAL PUMP	60m³/hr	6														
BWTS SYSTEM	UV TREATMENT	60m³/hr	—														
DRAWING No.		Rev.	DRAWING TITLE														
GSPL-P1482-PI-0004		0	SANITARY & F.W SERVICE SYSTEM PIPING SCHEMATIC														
GSPL-P1482-PI-0003		0	COMPRESSED AIR SYSTEM (CONTROL AIR) PIPING SCHEMATIC														
SYSTEM	DESIGN CONDITION		CLASS	TESTING		NOM. DIA.	PIPE	FITTINGS/FLANGE			GASKET	COATING	VALVE		REMARKS		
	PRESSURE (bar)	TEMP. (°C)		MEDIUM	PRESSURE (bar)		MATERIAL & SCHEDULE	MATERIAL (FITTINGS)	MATERIAL (FLANGES)	FLANGE RATING			MATERIAL				
													BODY	TRIM			
BWTS	6	AMB	III	WATER	9	300A TO 600A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K /PN10	NON ASBESTOS	HOT-DIP GALVANIZED	CAST IRON	AL. BRONZE			
						200A TO 250A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K/ PN10							
						50A TO 150A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K/ PN10	NON ASBESTOS	HOT-DIP GALVANIZED				BRONZE	BRONZE
						15A TO 40A											
ITEM LIST																	
No.	ITEM	ITEM NO.	REMARKS														
1	PIPE	BA01-BA06															
2	VALVE	BAV01-BAV11															
3	SAMPLING DEVICE	SV															
4	FLOW METER	Ⓣ															

[illegible]





B	Main water inlet
C	Main water outlet
D	Water discharge (backwash & draining)
E	Fresh water inlet
F	Air inlet
G	"To CIP inlet" connection
H	"From CIP outlet" connection
I	"To Stripping ejector" connection
J	"From Stripping ejector" connection
K	Vent outlet to gutter or bilge water
M	Safety valve outlet to gutter or bilge water

CT	Conductivity transmitter	PR	Pressure reducing valve
DP	Differential pressure	PSV	Pressure safety valve
EC	Electrical conductivity	PT	Pressure transmitter
F	Flow sensor	TT	Temperature transmitter
Fi	Flow information	UV	UV irradiance
FiC	Flow control	V	Valve
FT	Flow transmitter	VM	Manual valve
HA	Visual and audible alarm	ZEC	Control valve opening
P	Pump		
PI	Pressure indicator (indicative values, for information only)		