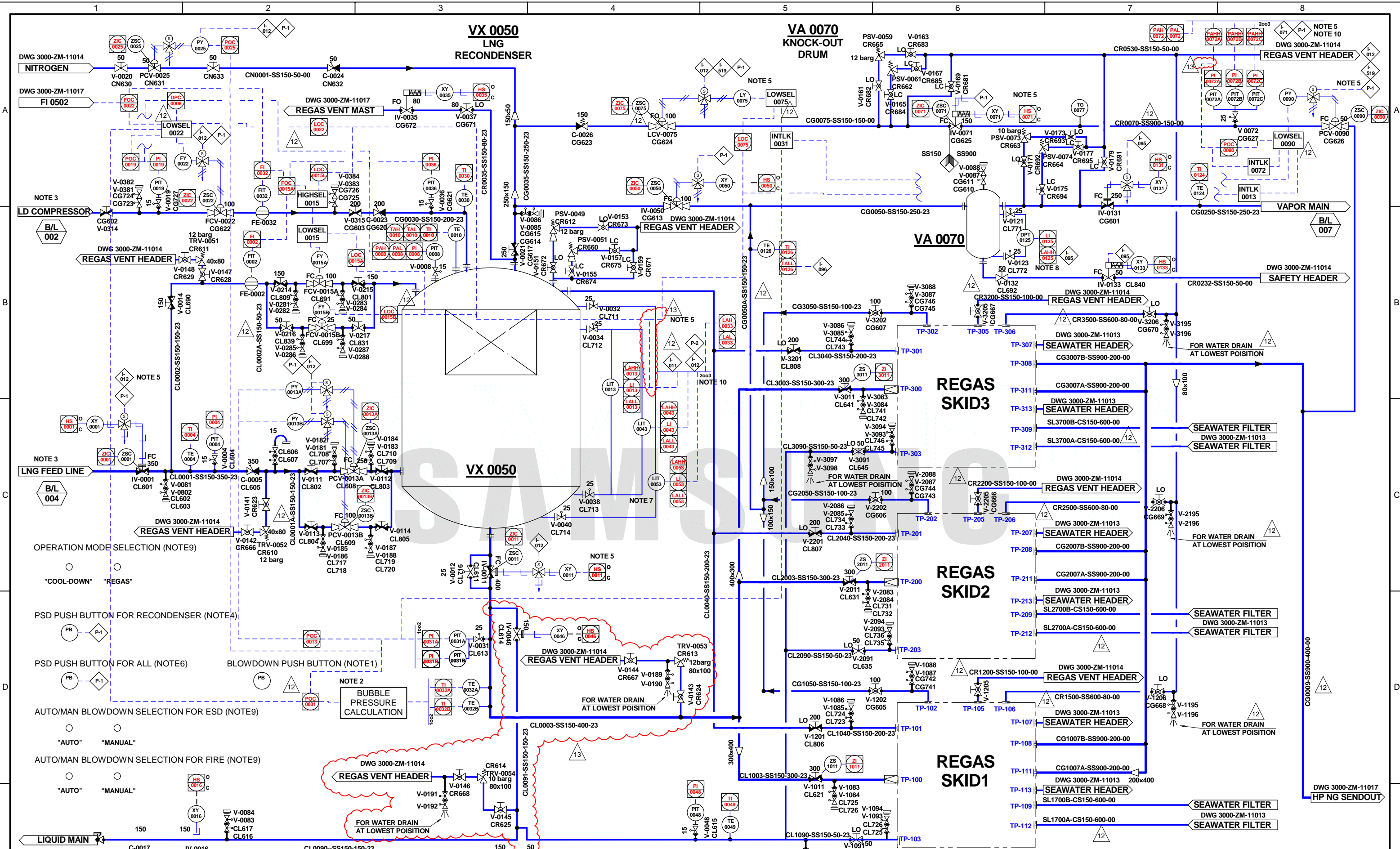


1		2		3		4		5		6		7		8		
PIPING SYMBOL		VALVE SYMBOL		CONTROL AND OPERATING DEVICE		TAGGING OF PIPING AND LINE		TAGGING OF INSTRUMENTATION / EQUIPMENT				IDENTIFICATION OF PIPING				
A		NOT CONNECTED CROSSING PIPES			GLOBE STOP VALVE		HAND-OPERATED	AA B XXX Y EENN DD CC		AA B XXX Y				CL LIQUID LINE		
		CONNECTED CROSSING PIPES			3-WAY VALVE		REMOTE CONTROL	AA	IDENTIFICATION OF PIPING		AA	IDENTIFICATION OF LETTER / EQUIPMENT		CS SPRAY / STRIPPING LINE		
		TEE PIPE			LIFT CHECK VALVE (ARROWHEAD MAY BE OMITTED)		SPRING	B	EQUIPMENT LOCATION CODE		B	EQUIPMENT LOCATION CODE		CG VAPOUR / GAS LINE		
		FLEXIBLE JOINT FLEXIBLE PIPE JOINT			SCREW DOWN STOP CHECK VALVE (ARROWHEAD MAY BE OMITTED)		WEIGHT	XXX	SEQUENTIAL NUMBER		XXX	SEQUENTIAL NUMBER		CN NITROGEN LINE		
		FLANGED JOINT			SWING CHECK VALVE (ARROWHEAD MAY BE OMITTED)		FLOAT	Y	PARALLEL ITEM		Y	PARALLEL ITEM		CR RELIEF LINE		
		REDUCER			PRESSURE REDUCING VALVE		HYDRAULIC CONTROL	EENN	PIPING CLASS IDENTITY					SA SAMPLING LINE		
		SCREWED JOINT			SPRING LOADED CHECK VALVE (FLAP) (ARROWHEAD MAY BE OMITTED)		DIAPHRAGM MEMBRANE	DD	NOMINAL DIAMETER (DN)					FM FLOW METER		
		WELDED JOINT			FLAP SWING CHECK VALVE (ARROWHEAD MAY BE OMITTED)		ELECTRIC MOTOR DRIVEN	CC	INSULATION CLASS					SL SEAWATER LINE		
		SLEEVE TYPE EXPANSION JOINT			SAFETY VALVE		AIR MOTOR DRIVEN	IDENTIFICATION OF LETTERS				EQUIPMENT IDEDNTIFICATION				
		DRESSER TYPE EXPANSION JOINT			SELF CLOSING VALVE (ARROWHEAD MAY BE OMITTED)		SOLENOID DRIVEN									
B		BELLOWS TYPE EXPANSION JOINT			REGULATING VALVE		WAX DRIVEN		1st LETTER	2nd LETTER	3rd LETTER	4th LETTER	5th LETTER	CA REGENERATIVE FILTER		
		RUBBER COMPENSATOR			BUTTERFLY VALVE (WAFER)	LC	LOCKED CLOSED	A	ABSOLUTE	ALARM / ABNORMAL	ALARM			HA SHELL AND TUBE HEAT EXCHANGER		
		EXPANSION PIPE JOINT			BUTTERFLY VALVE (FLANGED OR LUGGED)	LO	LOCKED OPENED	C		CONTROL	CONTROL / CLOSE	CONTROL		PA CENTRIFUGAL PUMP		
		BLANK(BLIND) FLANGE			GATE VALVE	NO	NORMAL OPENED	D	DIFFERENTIAL	DIFFERENTIAL				VA SEPERATOR		
		SPOOL PIECE			HOSE VALVE	NC	NORMAL CLOSED	E	EXTREME	ELEMENT	EXTREME	ELEMENT		INSULATION CLASS		
		HOSE COUPLING			NEEDLE VALVE		THE SIGNAL IS HARD WIRED TO MAIN DCS	F	FLOW/FLOAT							
		SPECTACLE FLANGE (OPEN)			RELIEF VALVE		HYDRAULIC CONTROL WITH SINGLE ACTING ACTUATOR	G	GAS	GAUGE	GAUGE					
		SPECTACLE FLANGE (CLOSE)			COCK			H	HAND	HIGH	HIGH	HIGH	HIGH			
		CONICAL TYPE STRAINER			3-WAY COCK (L-PORT)			I	CONSOLE OPERATED	INDICATOR	INDICATOR					
	C		SIMPLEX STRAINER			3-WAY COCK (T-PORT)			L	LEVEL	LEVEL / LIGHT	LOW / LEVEL	LOW	LOW	INSULATION CLASS	
		Y TYPE STRAINER			BALL VALVE			P	PRESSURE	PRESSURE	OPEN					
		ORIFICE			3-WAY BALL VALVE (L-PORT)			O		OUTPUT						
		FLOWMETER			3-WAY BALL VALVE (T-PORT)			R		RELIEF / READY						
		RUPTURE DISC			REMOTE OPERATED VALVE			S	STATE	SWITCH / SAFETY	SWITCH					
D			OFF CONNECTION			SELF REGULATING VALVE			T	TEMPERATURE	TRANSMITTER	TRANSMITTER			INSULATION CLASS	
			PIPING SPEC BREAK						U							
			TIE POINT						V	VERY / VELOCITY	VALVE	VALVE				
			BATTERY LIMIT						W							
									X	VIBRATION / OTHER						
	EQUIPMENT SYMBOL															
	E		CENTRIFUGAL PUMP		CONNECTION TYPE		GENERAL NOTES									
			SHELL & TUBE HEAT EXCHANGER													
			ELECTRICAL MOTOR		LINES											
			SUBMERGED HIGH PRESSURE PUMP		PRIMARY LINE											
		VESSEL		PNEUMATIC LINE												
				HYDRAULIC LINE												
				CAPILLARY LINE												
				ELECTRIC LINE												
				SOFTWARE LINK												
				SKID LIMITS												

							TITLE : REGAS					
14	2013.11.28	Approval for Design	JCL	GJG	HBY		P&ID - LNG Regasification PIPING SYMBOLS AND LEGEND					
13	2013.11.4	Approval for Design	JCL	GJG	HBY							
12	2013.7.30	Approval for Design	JCL	GJG	HBY							
11	2013.1.21	Approval for Design	YCE	GJG	SHK							
10	2012.11.20	Approval for Design	YCE	GJG	SHK							
9	2012.8.29	Approval for Design	YCE	GJG	SHK		HULL NO.: 2031		DWG.NO. : 3000-ZM-11001		14	00
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD					



NOTES:

1. LOCATED AT CARGO CONTROL CONSOLE.

2. LD COMPRESSOR LOAD IS LIMITED BY LNG CONDITION AT THE SUCTION OF HP BOOSTER PUMP.

3. COMMUNICATION SIGNALS TO BE CONFIRMED LATER.

4. LOCATE AT LOCAL. (NEAR TO THE RECONDENSER)
5. P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-011: LALL-LI 0013/0043/0053
I-012: LAHH-LI 0013/0043/0053
I-071: PAHH-PI 0072B/C
I-095: LAHH-LI 0125
I-096: TALL-TI 0126

6. LOCATE AT BOSUN STORE ENTRANCE, FWD END TRUNK DK, HIGH PRESS. MANIFOLD PORT/STBD (TOTAL 4 EA AT LOCAL).

7. MINIMUM DISTANCE FROM NOZZLE TO LIT: 4m.

8. IF THE LEVEL IS INDICATED, INTERLOCK IS ACTIVATED.

9. MODE SELECTION IS PREPARED ON THE REGAS CONTROL MIMIC.

10. PSD VOTING FUNCTION AS 2 OUT OF 3 BY ONE(1) PCS SIGNAL AND TWO(2) PSD SIGNAL

REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT
14	2013.11.28	Approval for Design	JCL	GJG	HBV	
13	2013.11.4	Approval for Design	JCL	GJG	HBV	
12	2013.7.30	Approval for Design	JCL	GJG	HBV	
11	2013.1.21	Approval for Design	YCE	GJG	SHK	
10	2012.11.20	Approval for Design	YCE	GJG	SHK	
9	2012.8.29	Approval for Design	YCE	GJG	SHK	

TITLE : REGAS

P&ID - LNG Regasification

HULL NO.: 2031

DWG.NO.: 3000-ZM-11011

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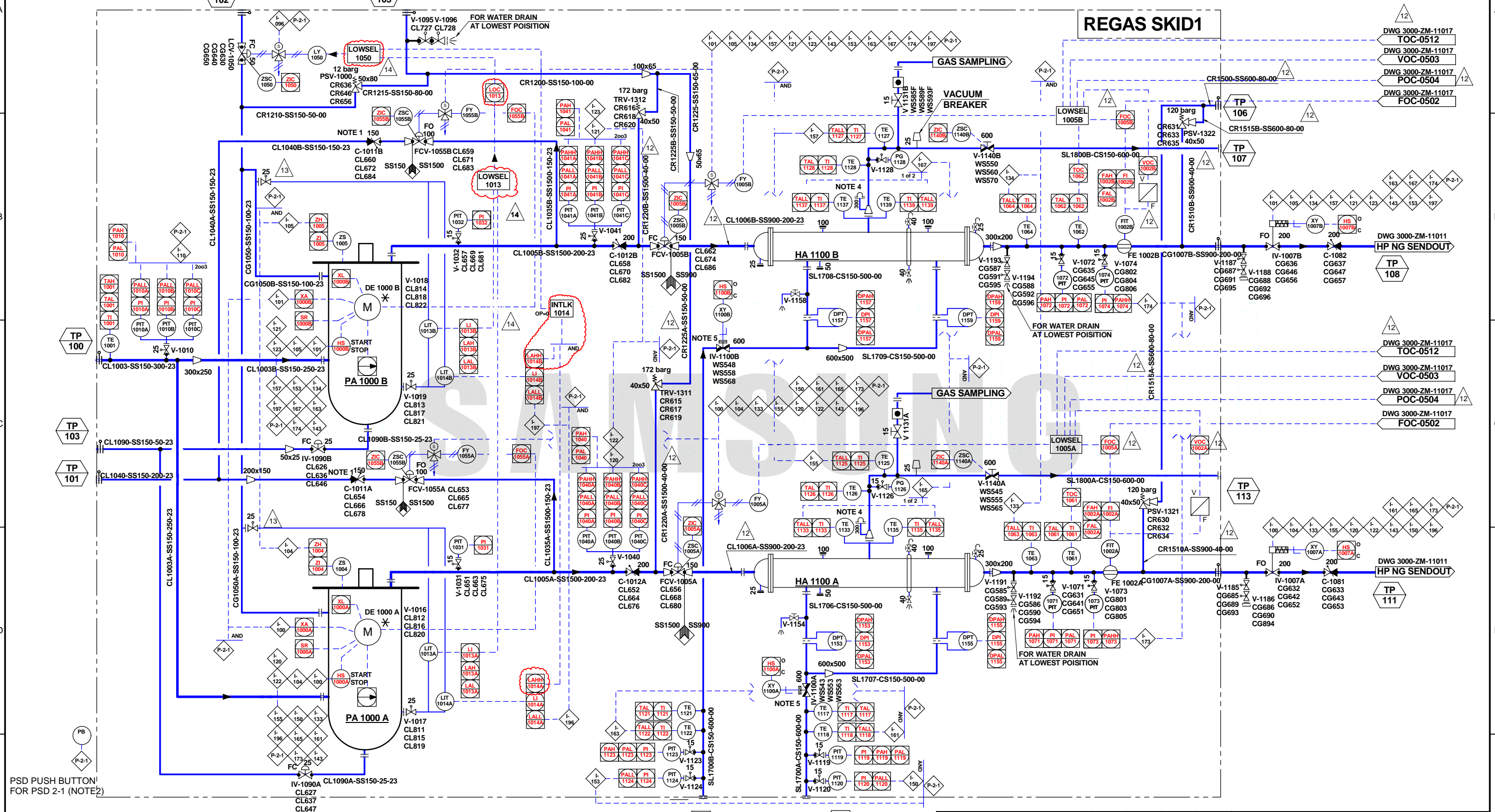
SAMSUNG

SAMSUNG HEAVY INDUSTRIES CO., LTD

PA 1000 A/B
HIGH PRESSURE
BOOSTER PUMP

HA 1100 A/B
LNG/SEAWATER
HEAT EXCHANGER

REGAS SKID1



PSD PUSH BUTTON
FOR PSD 2-1 (NOTE2)

NOTES:

- CONTAINS DRAIN HOLE
- LOCATED AT NEAR TO SKID 1
- P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2-1: PSD2 (SHUTDOWN SKID #1)
I-096: TALL-TI 0126
I-100: MOTOR A FAULT
I-101: MOTOR B FAULT

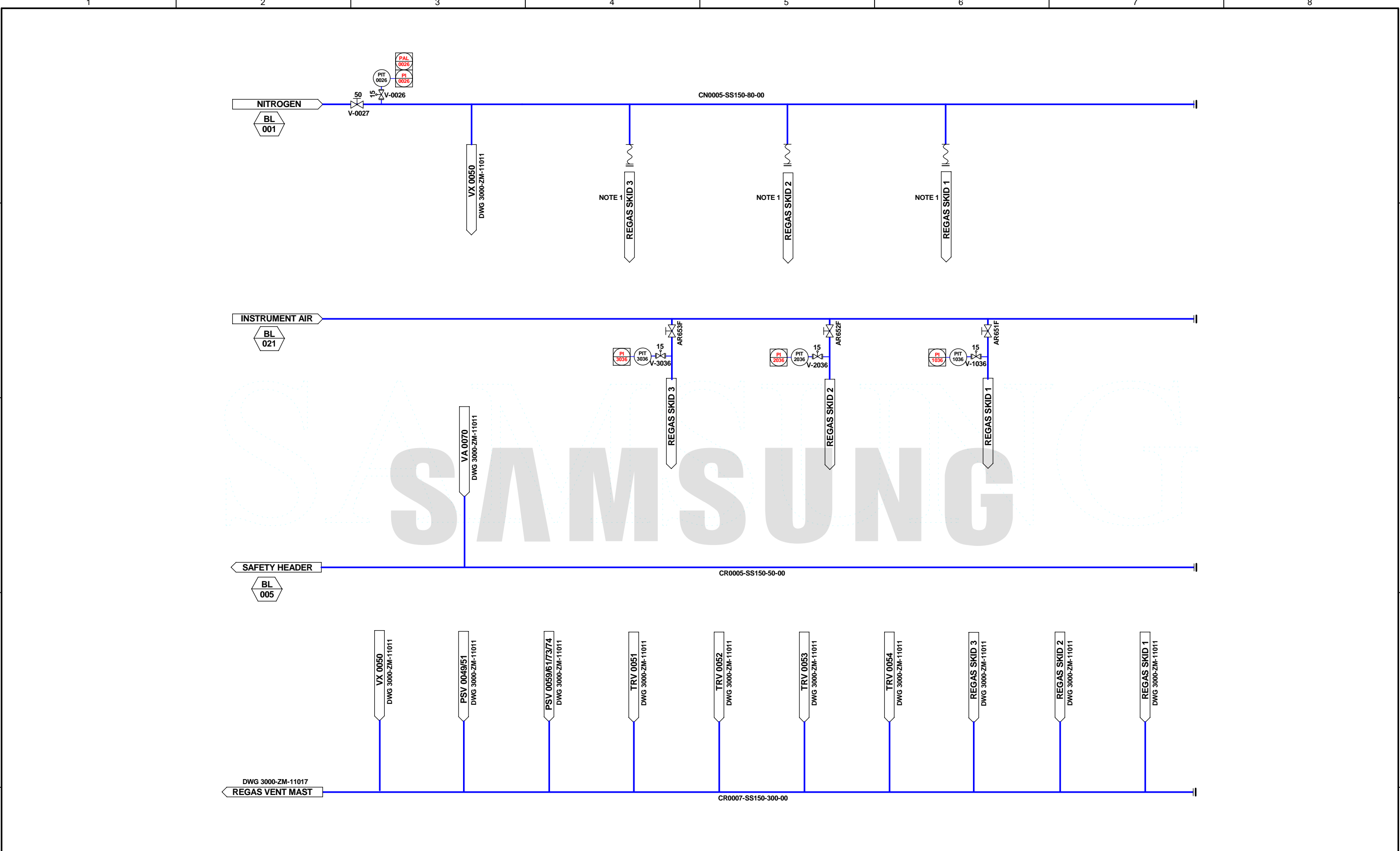
I-104: PUMP A POSITION HIGH (ZI 1004)
I-105: PUMP B POSITION HIGH (ZI 1005)
I-110: PALL-PI 1010B/1010C
I-120: PALL-PI 1040A/B/C
I-121: PALL-PI 1041A/B/C
I-122: PAHH-PI 1040A/B/C
I-123: PAHH-PI 1040A/B/C
I-133: TALL-TI 1063
I-134: TALL-TI 1064
I-143: CARGO FEED PUMP TRIP (Time delay 3min.)

I-150: PALL-PI 1120
I-153: PALL-PI 1124
I-155: TALL-TI 1125
I-157: TALL-TI 1127
I-161: TALL-TI 1118
I-163: TALL-TI 1122
I-165: TALL-TI 1133/1135
I-167: TALL-TI 1137/1139
I-173: PAHH-PI 1073
I-174: PAHH-PI 1074

I-196: LALL-LI 1014A
I-197: LALL-LI 1014B

- THE OUTLET FLOW OF RUPTURE DISC TO BE DIRECTED TOWARD OPEN DECK
- THE VALVE WILL BE KEPT POSITION IN CASE OF FAILURE

TITLE : REGAS					
P&ID - LNG Regasification					
REV	DATE	DESCRIPTION	DGN	CHK	APP
14	2013.11.26	Approval for Design	JCL	GJG	HBV
13	2013.11.4	Approval for Design	JCL	GJG	HBV
12	2013.7.30	Approval for Design	JCL	GJG	HBV
11	2013.2.25	Approval for Design	YCE	GJG	SHK
10	2012.11.20	Approval for Design	YCE	GJG	SHK
9	2012.8.29	Approval for Design	YCE	GJG	SHK
HULL NO.: 2031 DWG.NO.: 3000-ZM-11012 14 02 05					
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD					

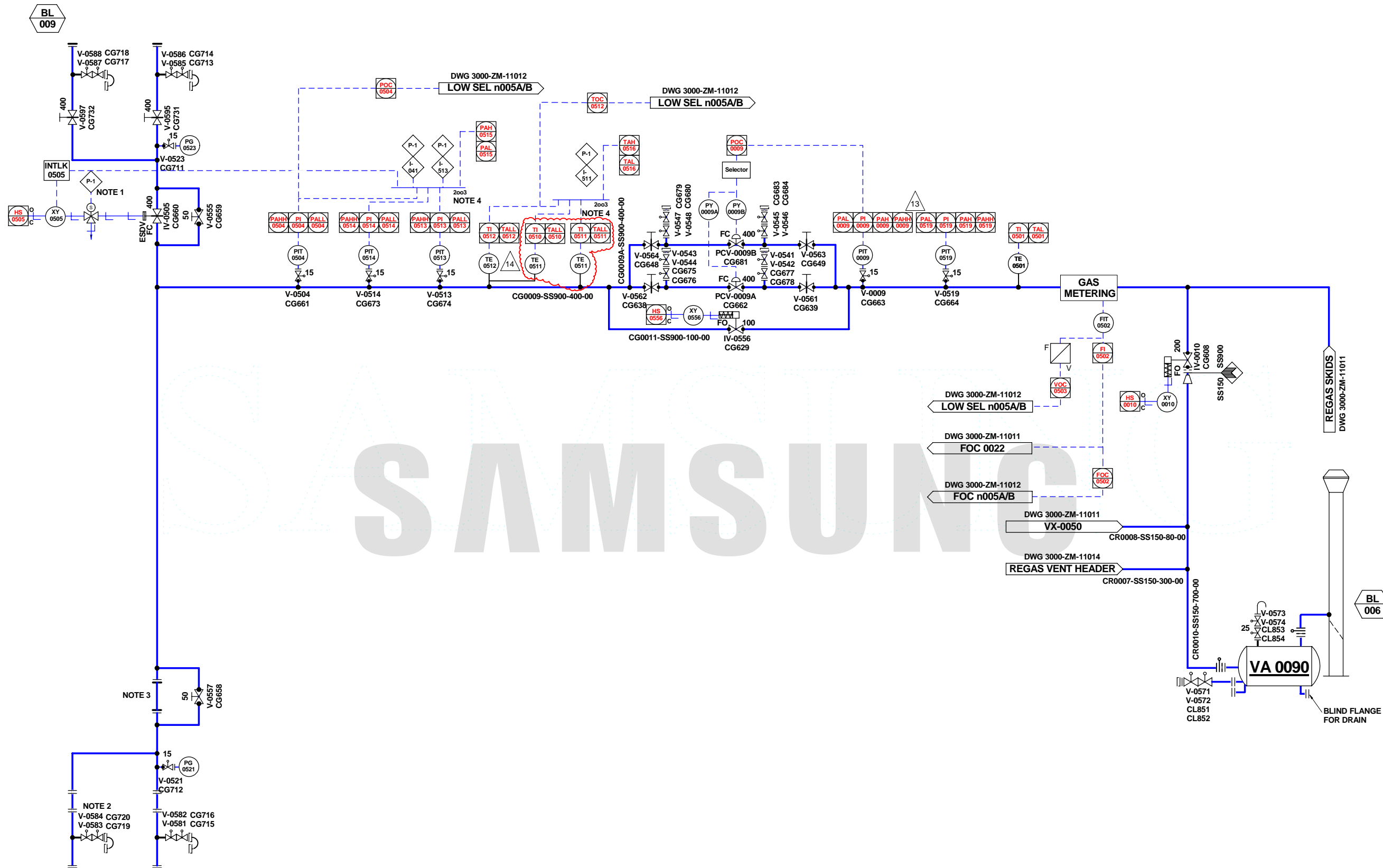


NOTES:

1.N2 SUPPLY CONNECTION
FOR HP BOOSTER PUMP ROTOR SUPPORT SYSTEM

REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	TITLE : REGAS			
14	2013.11.28	Approval for Design	JCL	GJG	HBY		P&ID - LNG Regasification SAFETY HEADER / NITROGEN DISTRIBUTION			
13	2013.11.4	Approval for Design	JCL	GJG	HBY					
12	2013.7.30	Approval for Design	JCL	GJG	HBY					
11	2013.1.21	Approval for Design	YCE	GJG	SHK					
10	2012.11.20	Approval for Design	YCE	GJG	SHK		HULL NO.:	DWG.NO. :	14	04
9	2012.8.29	Approval for Design	YCE	GJG	SHK		2031	3000-ZM-11014		05
							SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD			

VA 0090
VENT KNOCK-OUT
DRUM



NOTES:

1. P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-041: PAHH-PI 0504/0513/0514
I-511: TALL-TI 0511/0512
I-513: PALL-PI 0504/0513/0514
I-519: PAHH-PI 0519

2. DISTANCE PIECE FOR FUTURE INSTALLATION OF ISOLATION VALVES (V-0595/ V-0597) LENGTH AND SUPPORTS SHALL BE TAKEN CONSIDERATION OF THESE VALVE INSTALLATION

3. BLIND FLANGE SPACE RESERV FOR ESD VALVE INSTALLATION

4. PSD VOTING FUNCTION AS 2 OUT OF 3 BY ONE(1) PCS SIGNAL AND TWO(2) PSD SIGNAL

REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	TITLE : REGAS			
14	2013.11.28	Approval for Design	JCL	GJG	HBV		P&ID - LNG Regasification HIGH PRESSURE NG SENDOUT LINE			
13	2013.11.4	Approval for Design	JCL	GJG	HBV					
12	2013.7.30	Approval for Design	JCL	GJG	HBV					
11	2013.1.21	Approval for Design	YCE	GJG	SHK					
10	2012.11.20	Approval for Design	YCE	GJG	SHK					
9	2012.8.29	Approval for Design	YCE	GJG	SHK		HULL NO.: 2031	DWG.NO.: 3000-ZM-11017	14	05 05
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD										