

### PROCESS CONDITIONS TABLE

TAG NUMBER	TT2220JM001	
STATION NAME	OFFLOADED CONDENSATE METERING	
SERVICE	Condensate	
FLOW CONFIGURATION	4 x 33%	
AREA CLASSIFICATION	-	
DENSITY (kg/m³)	725/735/740	
VISCOOSITY (Cst)	0.571/0.569/0.600	
MIN	NOR	MAX
FLOW RATE (m³/h)	-	4000
PRESSURE (barg)	8	8
TEMPERATURE (°C)	-	24
DESIGN PRESSURE (barg)	-0.5 TO 46	
DESIGN TEMPERATURE (°C)	-5 / 80	
PIPING CODE	LR RULES AND REGULATIONS FOR THE CLASSIFICATION OF OFFSHORE UNITS, July 2014	
PIPING SPECIFICATION	44 BL	

VALVE AND INSTRUMENT CATEGORY ADDED AS PER HFE

### TP LIST

TP1	24"NB 300# RF ANSI B16.5 METERING INLET
TP2	24"NB 300# RF ANSI B16.5 METERING OUTLET
TP3	2"NB 300# RF ANSI B16.5 CLOSED DRAIN
TP4	1" NB 600# RF ANSI B16.5 N2 PURGE
TP5	2" NB 300# RF ANSI B16.5 CONDENSATE DRAIN
TP6	1" NB 600# RF ANSI B16.5 INSTRUMENT AIR
TP7	2"NB 300# RF ANSI B16.5 OPEN DRAIN (DRIP TRAYS)

### LEGEND :

- (FT) FLOW TRANSMITTER
- (PIT) PRESSURE INDICATING TRANSMITTER
- (PG) PRESSURE GAUGE
- (TIT) TEMPERATURE INDICATING TRANSMITTER
- (TE) TEMPERATURE ELEMENT
- (TG) TEMPERATURE GAUGE
- (TW) TEST THERMOWELL

### MAJOR ITEMS :

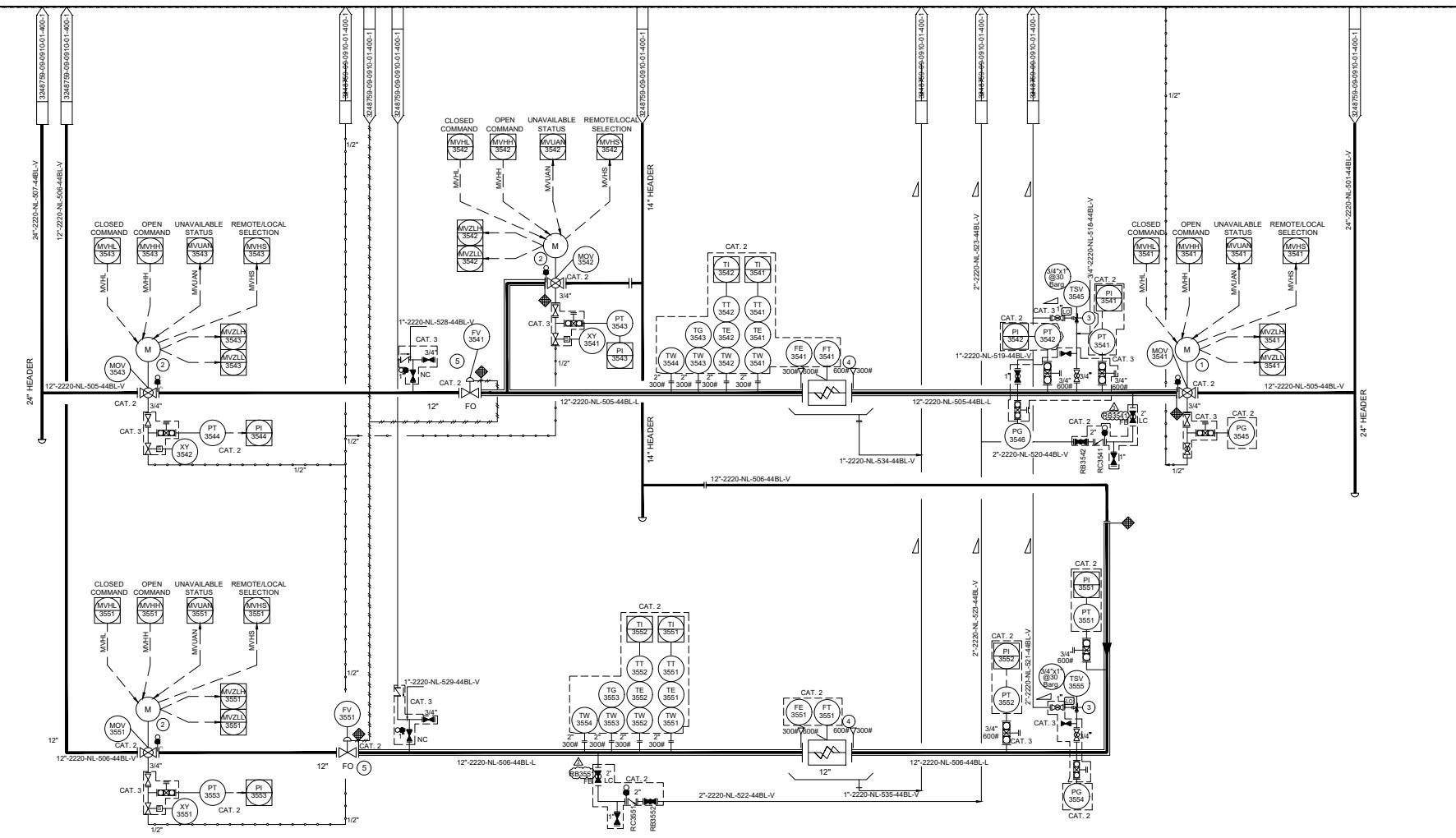
- (1) 12" 300# RF F.B BALL VALVE (ELECTRIC ACTUATOR MANUAL LEAK DETECTION)
- (2) 12" 300# RF F.B BALL VALVE (ELECTRIC ACTUATOR AUTOMATIC LEAK DETECTION)
- (3) 3/4"600# RF x 1"600# RF TRV
- (4) 12" 600# RF CORIOLIS METER
- (5) 12" 300# RF BUTTERFLY FLOW CONTROL VALVE (PNEUMATIC ACTUATOR)

### NOTES :

1. PREFIX FOR ALL TAG NOS - TT2220.
2. FAIL POSITION FOR ELECTRIC OPERATED VALVES IS "FAIL LAST".
3. FOR THERMOWELL VARIANT 1: TAPPING 2"/LENGTH 150MM IN ACCORDANCE WITH 4404GBTSG9340T PIPING CONSTRUCTION STANDARD.

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VISCOSITY (Cst)	0.571/0.569/0.600		
MIN	NOR	MAX	
FLOW RATE (m³/h)	-	4000	4000
PRESSURE (bar)	8	8	8
TEMPERATURE (°C)	-	24	40
DESIGN PRESSURE (bar)	-0.5 TO 46		
DESIGN TEMPERATURE (°C)	-5 / 80		
PIPING CODE	LR RULES AND REGULATIONS FOR THE CLASSIFICATION OF OFFSHORE UNITS, July 2014		
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### LEGEND :

FT	FLOW TRANSMITTER	TE	TEMPERATURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER	TG	TEMPERATURE GAUGE
PG	PRESSURE GAUGE	TW	TEST THERMOWELL
TIT	TEMPERATURE INDICATING TRANSMITTER		

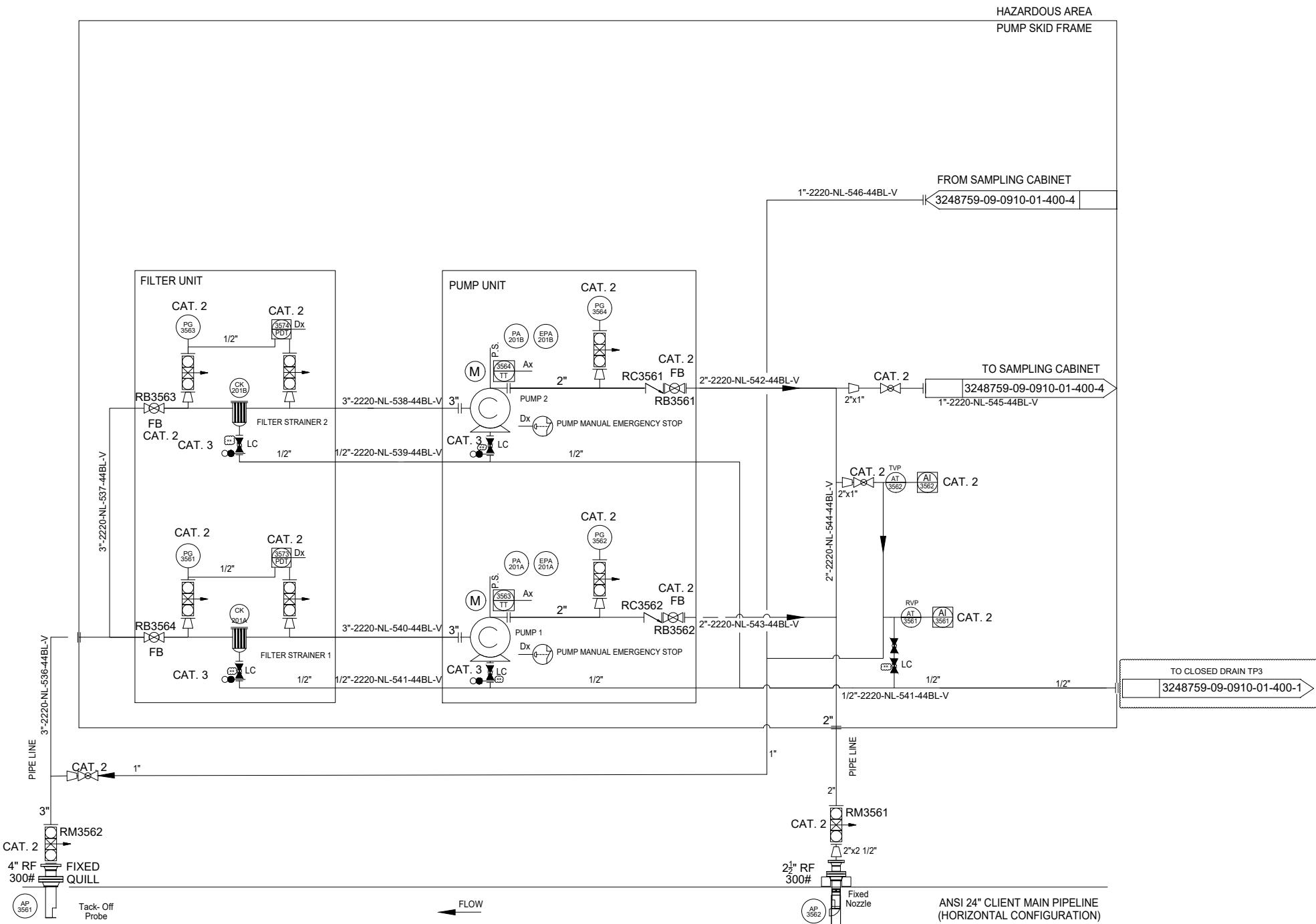
### MAJOR ITEMS :

- (1) 12" 300# RF F.B BALL VALVE (ELECTRIC ACTUATOR  
MANUAL LEAK DETECTION)
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AUTOMATIC LEAK DETECTION)
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- (4) 12" 600# RF CORIOLIS METER
- (5) 12" 300# RF BUTTERFLY  
FLOW CONTROL VALVE (PNEUMATIC ACTUATOR)

### NOTES :

1. ALL DIMENSIONS ARE IN inch.
2. EL. 000 CORRESPONDED TO BOTTOM OF SKID.
3. FOR THERMOWELL VARIANT 1: TAPPING 2"/LENGTH 150MM IN ACCORDANCE WITH 4404GGBTSG9340T PIPING CONSTRUCTION STANDARD.

PUMP DESIGN DATA: DESIGN PRESSURE: 46 Barg  
DESIGN TEMPERATURE: 80 Deg C  
FLOW RATE: 67 m<sup>3</sup>/hr



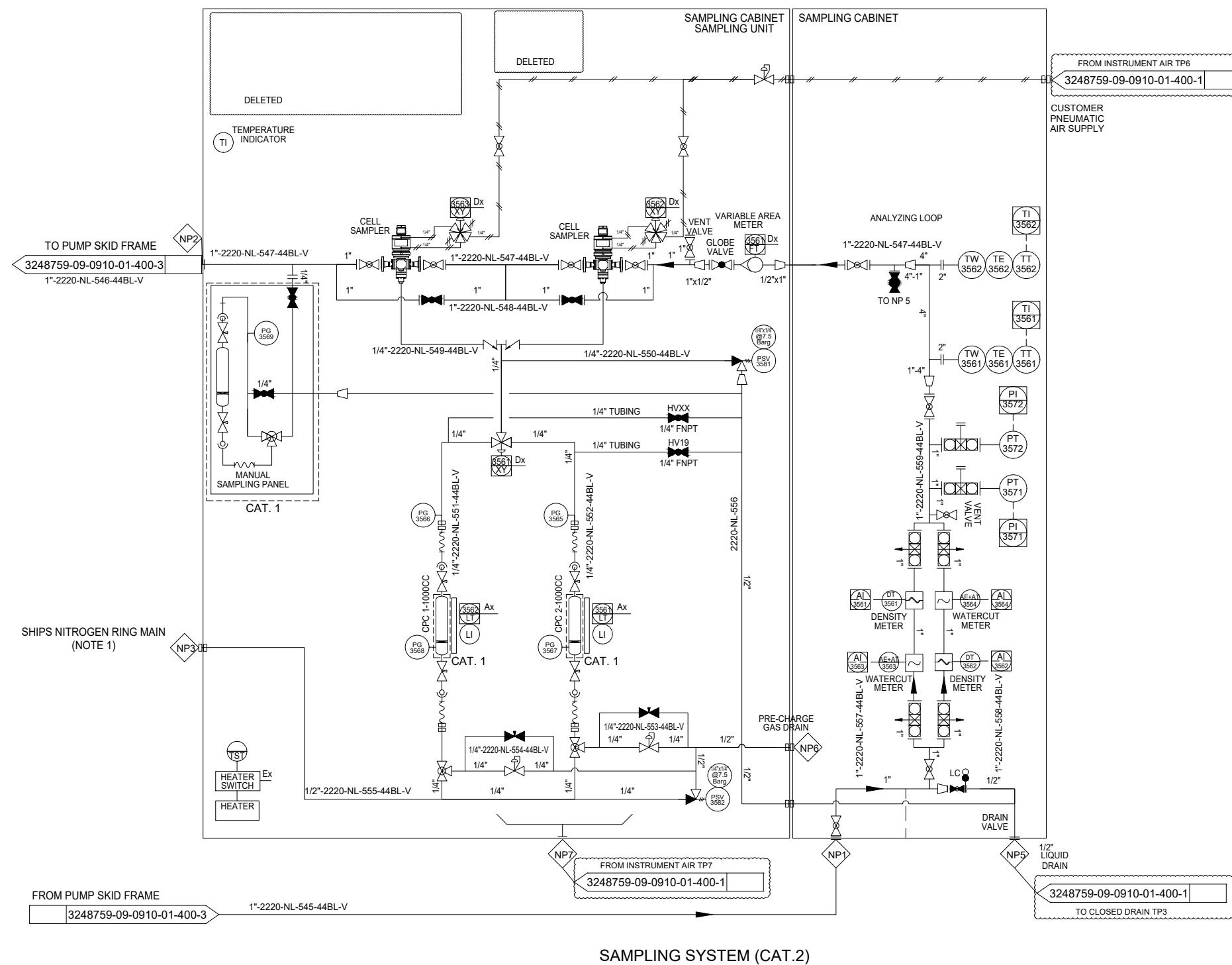
PUMP SKID

**NOTE:**

Deleted.

\*\* - Only one drain to be opened at a time out of these.





NP LIST		
ID	SIZE	DESCRIPTION
NP1	1"NB 600# RF ANSI B16.5	SAMPLING INLET
NP2	1"NB 600# RF ANSI B16.5	SAMPLING OUTLET
NP3	1/4" FNPT ANSI B1.20.1	NITROGEN GAS INLET
NP4	1/2" FNPT ANSI B1.20.1	COMPRESSED AIR INLET
NP5	1/2" 600# Flanged RF	ATMOSPHERIC DRAIN
NP6	1/2" FNPT ANSI B1.20.1	PRE-CHARGE GAS DRAIN
NP7	1/2" 600# Flanged RF	BASE FRAME DRAIN

SAMPLING SYSTEM (CAT.2)

**EMERSON.**