STYRENE PARK OFFSITE

Document Title:

Piping And Instrumentation Diagram (P&ID)

R0	30-06-2024	IFA	F.SH	M.O	A.M
Rev.	**Issued Date**	**DESCRIPTION**	**PREPARED**	**CHECKED**	**APPROVED**

REVISION RECORD SHEET

Page	Revisions								Page	Revisions						
Page	R0	R1	R2	R3	R4	R5	R6			R0	R1	R2	R3	R4	R5	R6
1	X								41							
2	X								42							
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7	X								47							
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INSTRUMENT NUMBERING

EACH INSTRUMENT HAS BEEN NAMED AS SHOWN BELOW IN THE DOCUMENTATION:
TAG-RU0001X-AA
WHERE,

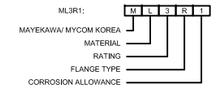
X : ONE DIGITS, WHICH IDENTIFY THE REFRIGERANT PACKAGE TRAIN (A OR B)
TAG : INSTRUMENT TAG (ATTACHMENT: P&ID SYMBOLS)
AA : TWO DIGITS, WHICH IS THE PROGRESSIVE ITEM NUMBER IN THE UNIT FROM 01 TO 99.

MOTOR INSTRUMENT NUMBERING

IF AN INSTRUMENT OR A FUNCTION IS INSTALLED ON A ELECTRIC DRIVER OF A MACHINERY WHICH NAME IS TAG-RU0001X-AA, THE INSTRUMENT NAME IS: TAG-RU0001X-AA

PIPE LINE NUMBERING
DN-MP-RU0001YXX-ML3R1-C

WHERE,
DN : NOMINAL DIAMETER IN INCH
MP : FLUID CODE
RU0001 : PACKAGE NAME
Y : PACKAGE TRAIN (A OR B)
XX : LETTER WHICH INDENTIFIES THE LINE NUMBER



Rating:
1=150 CLASS
3=300 CLASS
6=600 CLASS
9=900 CLASS
15=1500 CLASS

MATERIAL:
C: CARBON STEEL
L: LOW TEMPERATURE CARBON STEEL
S: STAINLESS STEEL
I: INSTRUMENT AIR STAINLESS STEEL

FLANGE TYPE:
R = RAISED FACE
F = FLAT FACE
R = RING TYPE JOINT
J = LARGE MALE/ FEMALE
S = SMALL L TONGUE/GROOVE

CORROSION ALLOWANCE:
0 = 0 mm
1 = 1.5 mm
2 = 3.0 mm

FLUID CODE:	DESCRIPTION
AV	Atmospheric Vent
CWS	Cooling Water Supply
CWR	Cooling Water Return
FWG	Flare/Vent gas
IA	Instrument Air
OI	Hydraulic Oil
ST	Styrene
PR	Propane

Instrument line and function symbols

HARDWARE Symbol	HARDWARE Denomination
	Locally mounted
	Monted on back panel
	Monted in main control room
	Monted on back panel In auxiliary control room or on local panel
	Monted on panel in auxiliary control room or on local panel
	Filled relay
	Back panel relay In auxiliary control room or on local panel
	Monted on back panel
	Star indicated that the instrument is supplied by package manufacturer
	SIGNAL LIGHT
FF	Foundation Fieldbus
	Differential between two value + Upper Value - lower value

SOFTWARE Symbol	SOFTWARE Denomination
	Field mounted, shared display, shared control
	Function normally inaccessible to operator and installed in main control room
	Function normally accessible to operator and installed In main control room
	Function normally Inaccessible to operator and Installed In auxiliary control room or on local panel
	Function normally accessible to operator and installed In auxiliary control room or on local panel
	Software Interloc logic normally inaccessible to operator and installed in main control room
S	Sequential logic functions
	Safety interlock logic
	Package Control System PLC

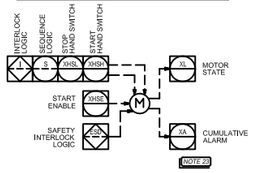
Instrument Line Symbols	
	Connection to process
	Pneumatic signal
	Electric signal
	Capillary tubing (FILLED SYSTEM)
	Internal system link (SOFTWARE / DATA LINK)
	Electromagnetic or sonic signal
	ELECTRICAL SIGNAL FIELDBUS TECHNOLOGY

FUNCTION LABELS	
Σ	Summing function
Δ	Difference function
X	Proportional function
X	Multiplying function
÷	Dividing function
>	High selecting function
<	Low selecting function

INSULATION AND TRACING CODES

A	:	ACOUSTIC INSULATION
H	:	HOT INSULATION
C	:	COLD INSULATION
P	:	PERSONNEL PROTECTION (FROM 60°C AND ABOVE)
FS	:	FIRE SAFE PROTECTION
T	:	STEAM TRACING
TW	:	HOT OIL TRACING
TC	:	HOT WATER TRACING
E	:	ELECTRICAL TRACING
JT	:	TOTAL JACKETED LINE
JR	:	REDUCED JACKETED LINE
JP	:	PARTIAL JACKETED LINE
F	:	ANTI FREEZING
D	:	DUAL INSULATION
B	:	SOLAR PROTECTION
K	:	ANTI CONDENSATION
AC	:	COLD AND ACOUSTIC INSULATION
AH	:	HOT AND ACOUSTIC INSULATION
N	:	NOT INSULATED
W	:	TAPE WRAPPED (UNDERGROUND LINES)

TYPICAL ELECTRICAL MOTORS INSTRUMENTATION



Piping and relevant components

Piping Symbol	Piping Denomination
	Main process
	Secondary process
	Utility
	Jacket
	Electrical Heat Tracing(Insulated)
	Hydraulic System Tubing (1/2" SS)
	Electrical Heat Tracing Tubing (Insulated)
	Blind flange
	Cap (butt weld)
DNxn	Reducer (Bottom flat)
DNxn	Reducer (Top flat)
DNxn	Reducer (Concentric)

VALVES Symbol	VALVES Denomination
	Sample connection
	Sample Point
	Gate or generic inline valve
	Check Valve
	Globe or disc Valve
	Bellow Valve
	Butterfly Valve
	Needle Valve
	Plug Valve
	Ball Valve (FULL BORE)
	Ball Valve (REDUCED BORE)
	Three-way Valve
	Spring Valve

Auxiliary connections with quick coupling Symbol	Denomination
	Female Connection
	Male Connection
	Flange Connection
(H)	Manhole
	Female nitrogen service
	Male nitrogen service
	Cone Type strainer
	Temporary strainer
	Y-Strainer
	T-Strainer
	Ring spade
	Spectacle blind - normally closed
	Spectacle blind - normally open
	Ring spacer

Process vent and drains

	With gate or generic valve

All process vents and drains must be provided with plug or blind flange according to piping specification.

Discharge to atmosphere Symbol	Denomination
	With flame trap
	With dumper or silencer
	Downward
	Upward
	Lateral
	Expansion joint
LC	Locked Close Valve
LO	Locked Open Valve
NO	Normally open valve
NC	Normally closed valve
CSO	Car seal open valve
CSC	Car seal closed valve
TSO	Tight Shut Off Valve
SG	Sight glass
C.L. CAA CDA	Pipe line class change

Instrument Identification

Symbol	Denomination
	Instrument tap on line
PI	Pressure tap with manifold valve
PI	Pressure tap with generic valves
PI	Pressure tap diaphragm type
FO	Fixed restriction orifice
FT	Primary flow element with transmitter
FICV	Automatic regulator with integral flow indication

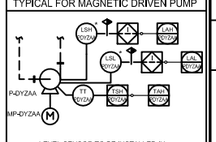
Actuator symbols Symbol	Denomination
	Handweel for automatic valves (valve with actuators)
	Diaphragm, spring-opposed
	spring-opposed single-acting
	Cylinder, spring-opposed double-acting
M	Rotary motor
S	Solenoid
S	Solenoid valve with manual reset
	Hand actuator
	Butterfly Valve
PSV SET bar	Pressure relief or safety valve
TSV	Temperature relief or safety valve
FO	Two-Way Valve Fail Open
FC	Two-Way Valve Fail Close
FL	Two-Way valve fail locked
FI	Two-way valve fail indeterminate
FO	three-way valve fail open to path A-C
LG (MAG)	MAGNETIC LEVEL GAUGE
LT (MD)	LEVEL TRANSMITTER WITH DIAPHRAGM SEPARATOR WITH EXTENSION
C	Open Close

Actuator action in event of air failure

FLOW INSTRUMENTS

SIGHT FLOW GLASS	FLOW TURBINE TYPE
ORIFICE PLATE WITH TRANSMITTER	METER RUN
ROTAMETER	INTEGRAL FLOW ORIFICE ASSEMBLY
VENTURI	FLOW POSITIVE DISPLACEMENT TYPE
FLOW NOZZLE	PITOT OR ANUBAR WITH TRANSMITTER
	FLOW RESTRICTION ORIFICE
	TRANSMITTER MAGNETIC VORTEX CORIOLIS ULTRASONIC
THERMAL FLOWMETER	THERMAL FLOWMETER

TYPICAL FOR MAGNETIC DRIVEN PUMP



LEVEL SENSOR TO BE INSTALLED IN SUCTION PUMP LINE, IN PUMP LINE, IN HORIZONTAL POSITION, 15° ANGLE DEVIATION FROM VERTICAL LINE.

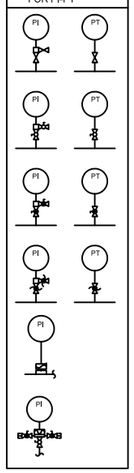
RS	REMOVABLE SPOOL PIECE
	INSULATION KIT
DWG No	Connected sheet No. for Process Flow Diagram and P&ID
DWG No	Connected sheet No. for utilities P&ID
DWG No CW	Utility fluid code for P&ID utilities
S	Steam trap
	FREE DRAINING
	1"-PS-33001A-2AANB-JT 2"-JHO-33002J-2ADND-H

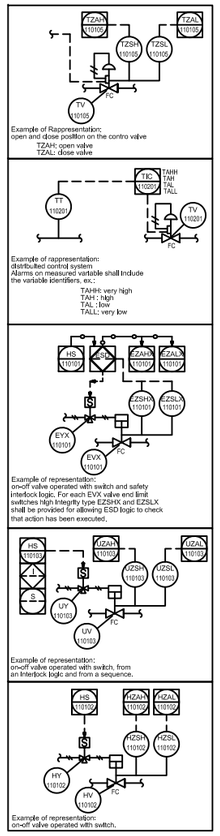
Jacketed lines: they are marked with a double identification, one regarding the jacketed line and the other are regarding the jacket.

Supply battery limit	Tie In Point	CUSTOMER VENDOR

INDICATED ON P&ID	ACTUAL
TT	TW TT TE
TI	TI TW

TYPICAL INSTALLATION FOR PI-PT





Symbol	Denomination	Abbreviation
	CARTRIDGE Filter	FT
	Basket Filter	
S.STR	Suction Element	TST
	Coalescer	D
	Decanter	
	Compressor Screw	C
	Vertical Shell & Tube Exchanger	E
	Pump Reciprocat	P
	Ejector	EJ
	Aircooler	AE

REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- AN ADDITIONAL "X" AFTER THE INSTRUMENT CODE MEANS THAT INSTRUMENT BELONGS TO ESD SYSTEM.
2- FOR TEMPERATURE MEASURING INSTRUMENTS WHOSE SIGNAL HAS TO BE ROUTED TO A REMOTE SYSTEM (DCS, PLC), THE TRANSMITTER HAS BEEN ALWAYS INDICATED EVEN IF IT IS STRICTLY REQUIRED ONLY FOR CONTROL LOOPS, PROCESS INTERLOCKS AND SAFETY INTERLOCKS. IN CASE OF TEMPERATURE INDICATOR.
3- IN ALL THE P&ID, PACKAGES ARE REPPRESENTED IN A SIMPLIFIED WAY. IN GENERAL, WHAT IS REPPRESENTED IS LICENSOR MINIMUM REQUIREMENT. THE CHARACTERISTICS OF EACH PACKAGE ARE DESCRIBED IN THE RELEVANT DATA SHEET. IN ANY CASE, PACKAGES VENDORS SHALL SUPPLY FINAL P&ID.
4- FOR PIPES CARRYNG THE FOLLOWING FLUIDS :
- EB (ETHYLBENZENE)
- AN (ACRYLONITRILE)
- CD (ORGANIC LIQUID CONDENSATE)
- ST (STYRENE)
- BD (BUTADIENE)
THE NUMBER OF FLANGES SHALL BE MINIMIZED.
5- INSTALL DRAINS ON THE PIPING CIRCUITS (OR SINGLE LINES) LOWEST POINTS AND VENTS IN THE PIPING CIRCUITS (OR SINGLE LINES) HIGHEST POINTS.
6- MINIMIZE FLANGED COUPLINGS ON HOT/THERMAL OIL (HO) MAIN DISTRIBUTION HEADER LINES. FOR THERMAL OIL (HO, CO) LINES INSTALLED ON PIPE RACKS, FLANGED COUPLINGS SHALL BE EQUIPPED WITH SAFE-RING OR EQUIVALENT FLANGES JOINTS SPRAY PROTECTION.
7- WHEN AN INTERLOCK OR A SEQUENCE REQUIRES TO PERFORM AN ACTION, THE INTERLOCK OR SEQUENCE ITSELF SHALL VERIFY IF THE ACTION HAS BEEN DONE. THIS HAS TO BE CONSIDERED AS STANDARD INSTALLATION AND IS NOT REPRESENTED ON P&ID.
8- IN GENERAL ON P&IDs SEQUENCES CHECK PHASE IS NOT REPRESENTED EXCEPT FOR:
- ABS PLANT: RUBBER DISSOLUTION SECTION
- RUBBER PLANT: REACTION SECTION
9- THE SIZE OF CONTROL VALVES BY-PASS VALVES WILL BE DEFINED / CONFIRMED ACCORDING TO THE FINAL SIZE OF CONTROL VALVES.
10- IN CASE DRIP RING IS INDICATED ON P&ID, IT SHALL BE SUPPLIED BY PIPING VENDOR. FOR DRIP RING TYPICAL SEE DOC. J-80/65/88-IN-STD-1500-0001 "DRIP RING FOR DIAPHRAGM INSTRUMENT TYPICAL".
11- THE INSTALLATION OF ALL PI-PT-TI-TT REPRESENTED ON P&ID IS INDICATED IN THE TYPICAL.
12- ALL SIGNALS FROM PLC TO ESD SHALL BE HARD-WIRED (NON-DATALINK)
13- ALL SIGNALS FROM UNIT 88 INSTRUMENTS SHALL BE CONNECTED TO DCS /FCS /ESD OF RUBBER PLANT.
14- ALL VALVES ON PSV INLET /OUTLET LINES SHALL BE FULL BORE TYPE. GATE VALVE ON FLARE LINE TO BE INSTALLED WITH STEM IN HORIZONTAL POSITION.
15- FOR SPECIAL PIPING ITEMS LIST REFER TO DOC.J-85-PI-LSC-8501.
16- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
17- ELEVATION SHOWN ARE ABOVE THE HIGHEST POINT OF PAVING.
18- ALL VALVES ARE LINE SIZE UNLESS OTHERWISE SHOWN.
19- THIS FLOW DIAGRAM IS DIAGRAMMATIC ONLY. DESIGN OF PIPE LINE MUST BE INVESTIGATED FOR VENTING OF GAS AND VAPOR POCKETS IN PIPING AND EQUIPMENT, LOW POINTS IN PIPING, PUMPS AND EQUIPMENT FOR DRAINING AND ACCESSIBILITY OF ALL VALVES, FLANGES AND INSTRUMENTS INCLUDING THERMOCOUPLES ETC.
20- ALL ELECTRONIC INSTRUMENTATION SHALL BE INSTALLED AWAY FROM STEAM LINES AND HIGH TEMPERATURE HEAT SOURCE.
21- SAMPLE TAPING FOR GAS SAMPLES SHALL BE FROM THE TOP OF THE MAIN LINE. FOR LIQUID SAMPLES TAPPING SHALL BE DONE FROM THE SIDE.
22- EXCEPT FOR PROCESS REASONS, LOW POINT DRAINS AND HIGH POINT VENT ARE NOT SHOWN.
23- CABLING BETWEEN DCS REMOTE I/O CARDS IN MCC CUBICLE CABINET AND MAIN CONTROL ROOM WILL BE VIA SOFT LINK EXCEPT FOR ESD SIGNALS TO MCC THAT WOULD BE HARD WIRED.
24- EDSL MEANS EARTHING SWITCH LOW.
25- SIGNALS OF CURRENT TRANSMITTERS ARE TAKEN FROM MCC.
26- WHILE PURGING THE EQUIPMENTS, VENTS SHALL BE PROPERLY KEPT OPEN IN ORDER TO AVOID EQUIPMENT PRESSURIZATION ABOVE EQUIPMENT DESIGN/PSV SET PRESSURE BY MAINTAINING PROPER ADMINISTRATIVE CONTROL. PRESSURE SAFETY VALVES AND RUPTURE DISCS ARE NOT DESIGNED FOR THE MAXIMUM PURGING CONDITION MENTIONED IN THE LICENSOR PDP DATA.

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M

CLIENT

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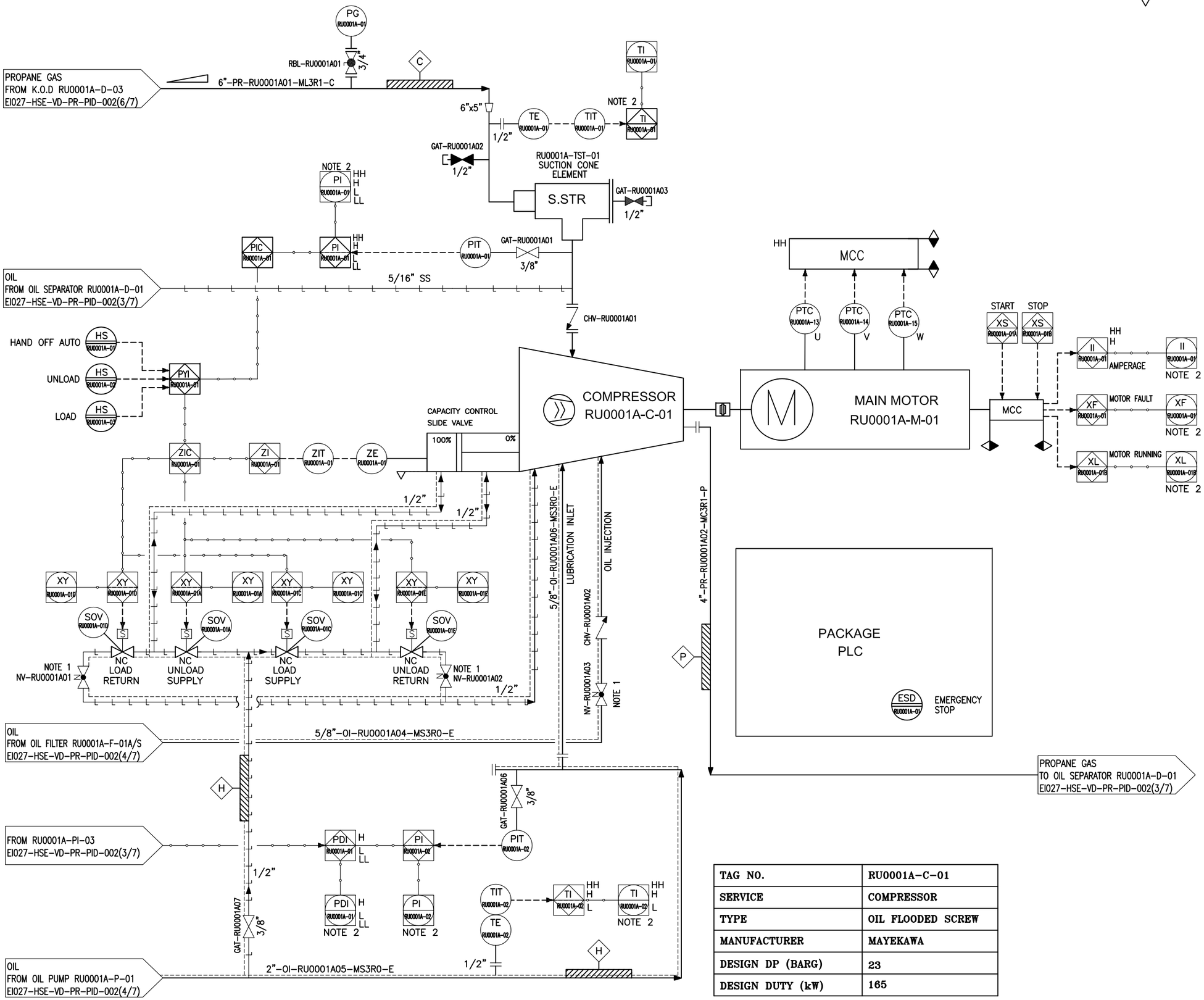
CONSULTING ENGINEER

PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE:
PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU
SYMBOL, ABBREVIATION AND GENERAL NOTES

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	1 of 7



TAG NO.	**RU0001A-C-01**
SERVICE	**COMPRESSOR**
TYPE	**OIL FLOODED SCREW**
MANUFACTURER	**MAYEKAWA**
DESIGN DP (BARG)	**23**
DESIGN DUTY (kW)	**165**

REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- OPENING DEGREE TO BE SET DURING COMMISIONING AND LOGGED.

2- SIGNALS ROUT TO DCS.

3- SET TEMPERATURE FOR ELECTRICAL TRACING IS 30°C.

HOLDE:

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00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M.

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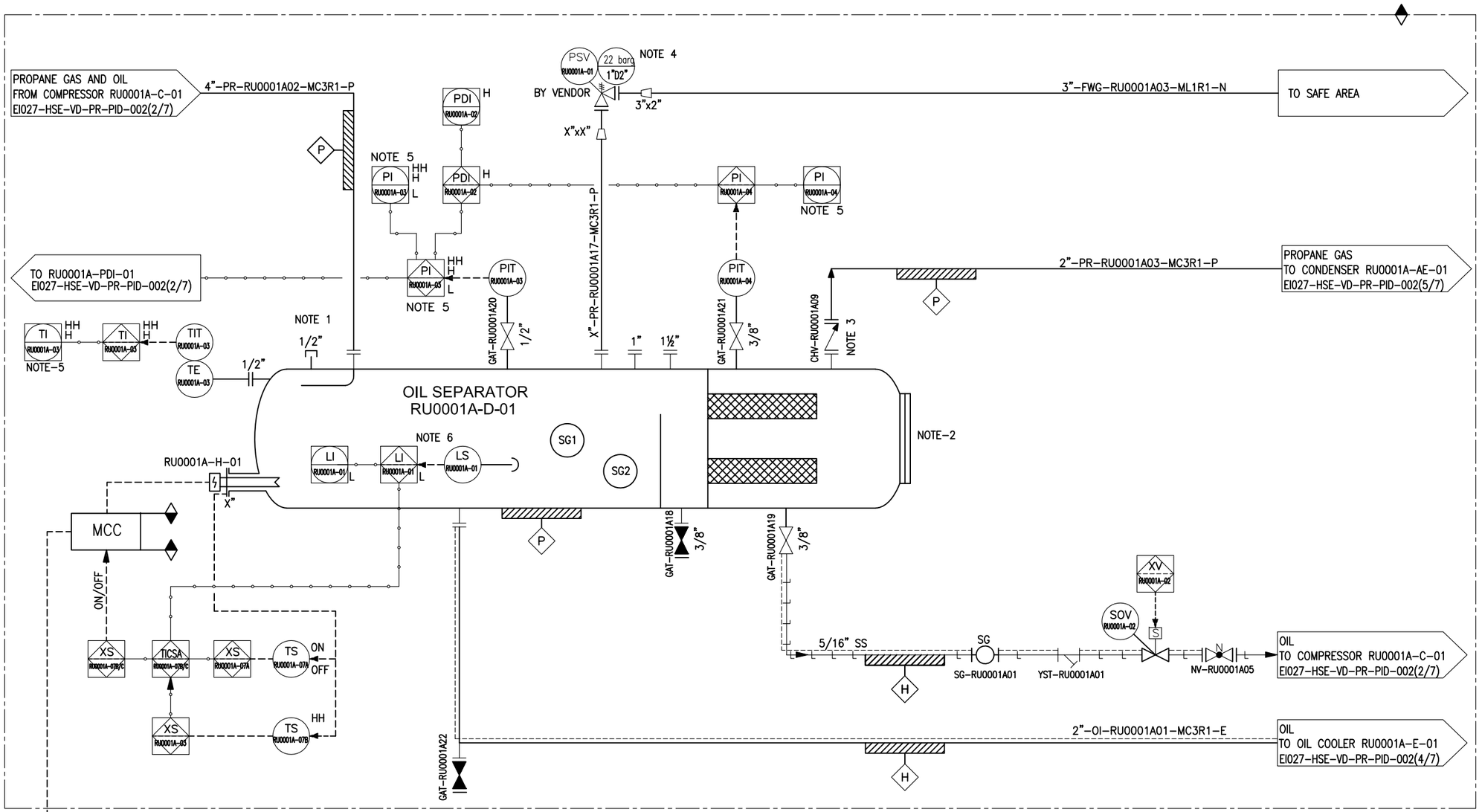
CONSULTING ENGINEER

PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	2 of 7

TAG NO.	RU0001A-D-01
SERVICE	OIL SEPARATOR
DESIGN PRESS. (BARG)	22
DESIGN TEMP. (°C)	-29/100
ID x L (mm)	590 x 2250



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- OIL TOP UP & VACUUM CONNECTION.
2- INSPECTION HOLE.
3- STOP CHECK VALVE FOR PREVENT SPIN BACK.
4- SIZE OF PSV WILL BE FINALIZED ON NEXT STAGE.
5- SIGNAL ROUT TO DCS.
6- IN CASE OF LOW OIL LEVEL, THE OIL HEATER TO BE TRIPPED.
7- SET TEMPERATURE FOR ELECTRICAL TRACING IS 30°C.

HOLDE:

EQUIPMENT LIST:

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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00		ISSUED FOR APPROVAL (IFA)	A.M.	F.SH.	A.M.

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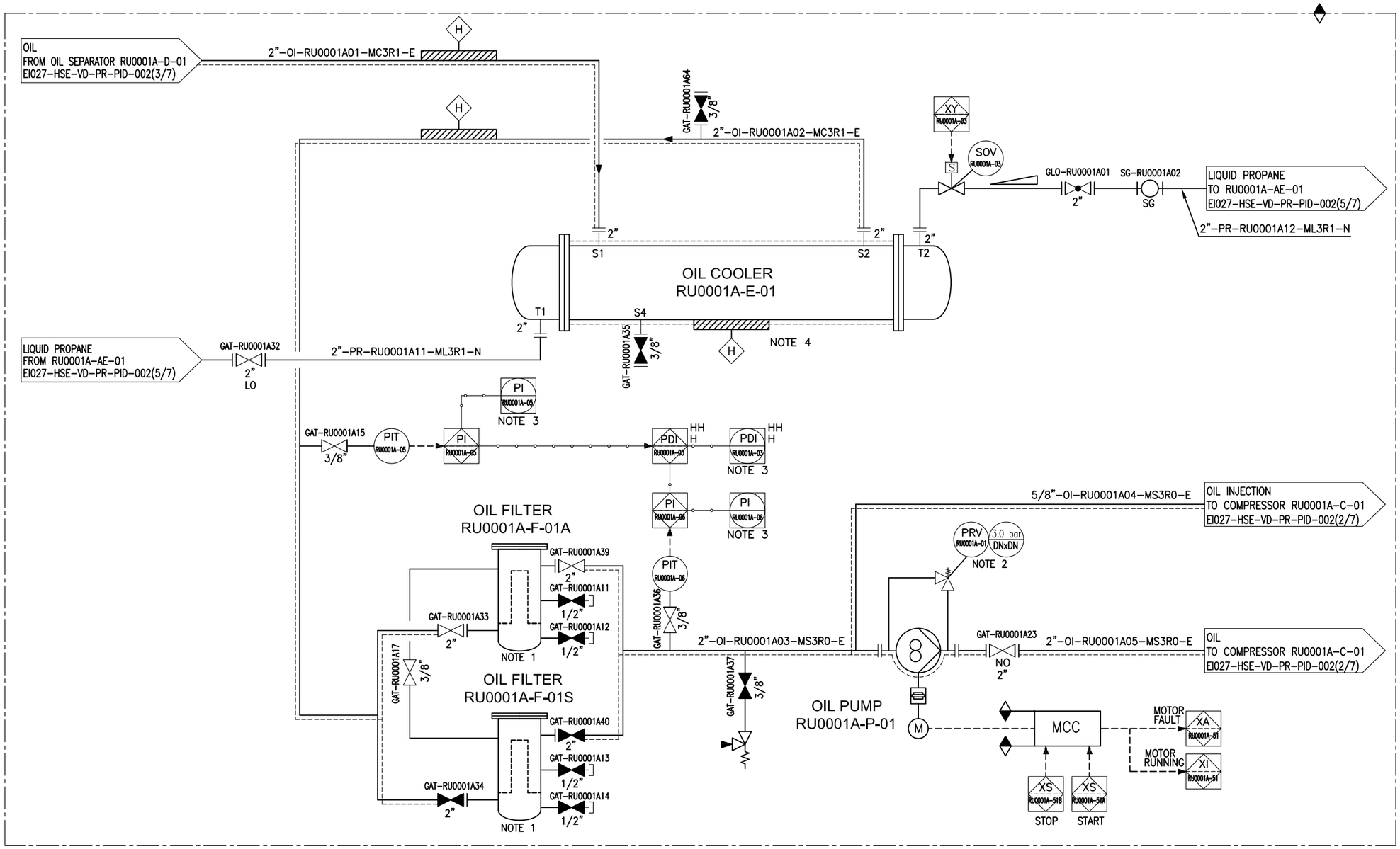
DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	3 of 7

TAG NO.	RU0001A-E-01
SERVICE	OIL COOLER
DESIGN PRESS. (BARG)	S: 30, T:30
DESIGN TEMP. (°C)	S:5/100, T:-45/100
DESIGN DUTY (kW)	24.7
ID x L (mm)	139.7 x 2200
TYPE	AEH

TAG NO.	RU0001A-P-01
SERVICE	OIL PUMP
TYPE	SCREW PUMP
DESIGN PRESS. (BARG)	23
DESIGN TEMP. (°C)	5 / 100
RATED POWER (kW)	2.5

TAG NO.	RU0001A-F-01A/S
SERVICE	OIL FILTER
DESIGN PRESS. (BARG)	23
DESIGN TEMP. (°C)	5/100
ID x L (mm)	MAYEKAWA



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- ONE OPERATING / ONE STAND-BY.
2- DP=3 BAR.
3- SIGNAL ROUT TO DCS.
4- HEAT TRACING TO BE TURNED OFF DURING COMPRESSOR START.
5- SET TEMPERATURE FOR ELECTRICAL TRACING IS 30°C.

HOLDE:

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KEY PLAN :

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00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M.

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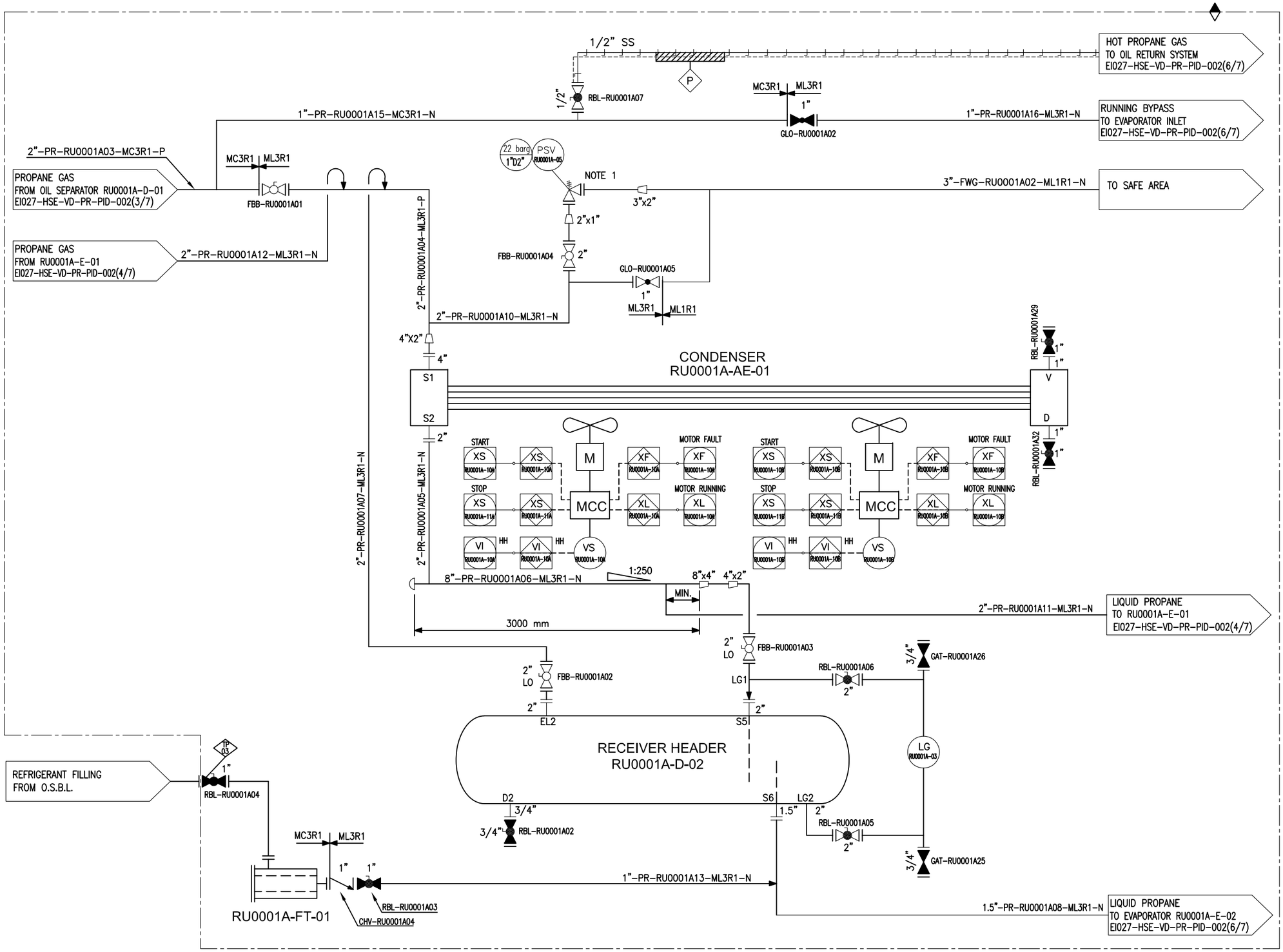
DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	4 of 7

TAG NO.	RU0001A-AE-01
SERVICE	CONDENSER
DESIGN PRESS. (BARG)	22.0+FV
DESIGN TEMP. (°C)	-45/120
DESIGN DUTY (kW)	257

TAG NO.	RU0001A-D-02
SERVICE	RECEIVER HEADER
DESIGN PRESS. (BARG)	22.0+FV
DESIGN TEMP. (°C)	-45/120
ID x L (mm)	335x5050



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- SIZE OF PSV WILL BE FINALIZED ON NEXT STAGE.
2- MANUAL FAN PITCH HAS BEEN CONSIDERED FOR EACH FAN.
3- SET TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

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00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M.

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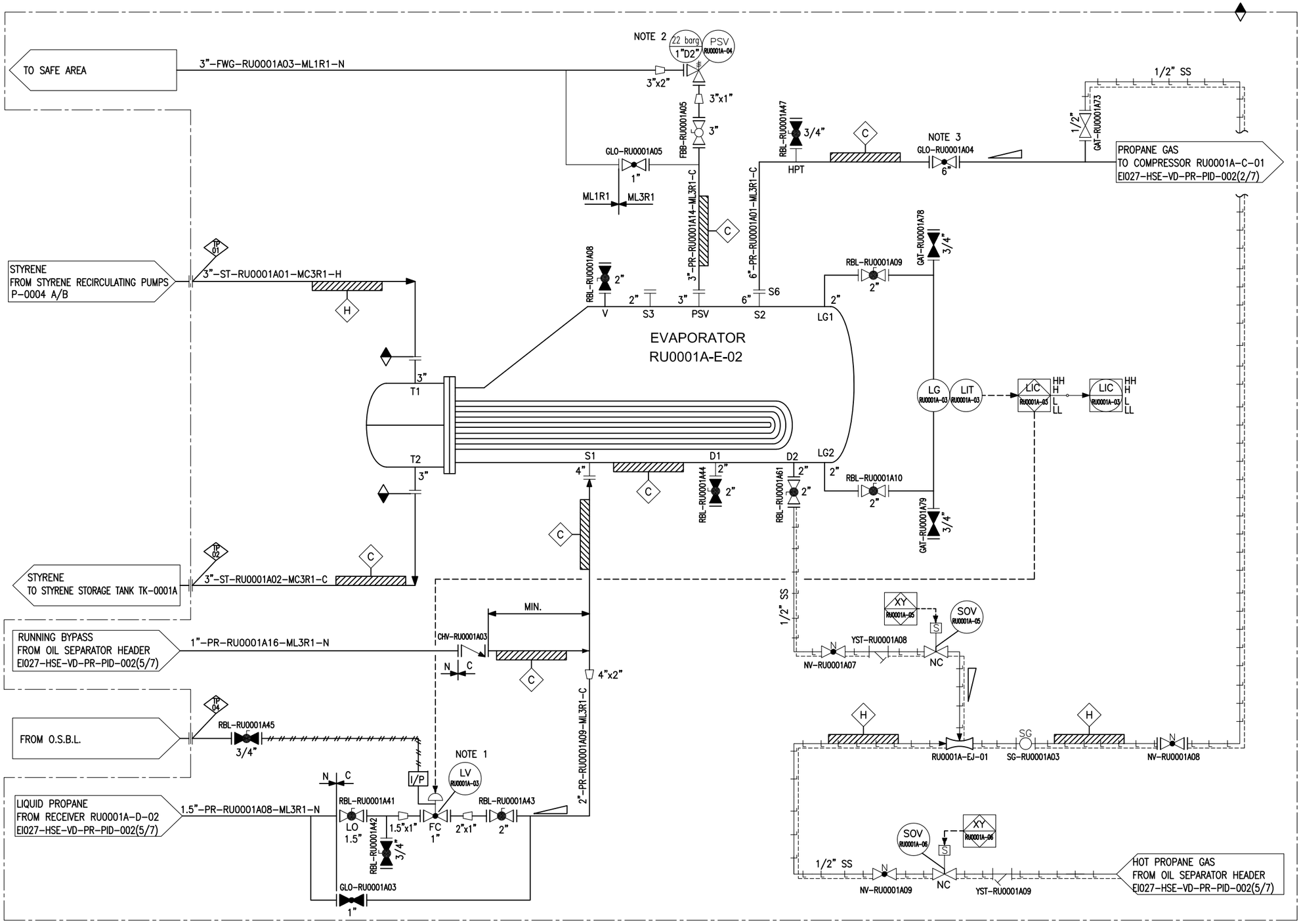
DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	5 of 7

TAG NO.	**RU0001A-E-02**
SERVICE	**EVAPORATOR**
DESIGN PRESS. (barg)	**S: 22.0+FV, T: 6.8+FV**
DESIGN TEMP. (°C)	**S: -45/120, T: 85**
DESIGN DUTY (kW)	**166.6**
SHELL ID x TUBE L (mm)	**600-925 x 2300**
TEMA TYPE	**BKU**



REFERENCE DRAWING	DWG NO.	REV.

NOTES :

1- TRAVEL DOWN BLOCK TO BE SET AND LOCKED AT MINIMUM OPENING DURING COMMISSIONING (2 ~ 5%).

2- SIZE OF PSV WILL BE FINALIZED ON NEXT STAGE.

3- AT STAND STILL CONDITION, VALVE NEEDS TO BE CLOSED COMPLETLEY. DURING START-UP VALVE TO BE OPENED SMOOTHLY.

4- SET TEMPERATURE FOR ELECTRICAL INSULATIONS IS 30°C.

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M.

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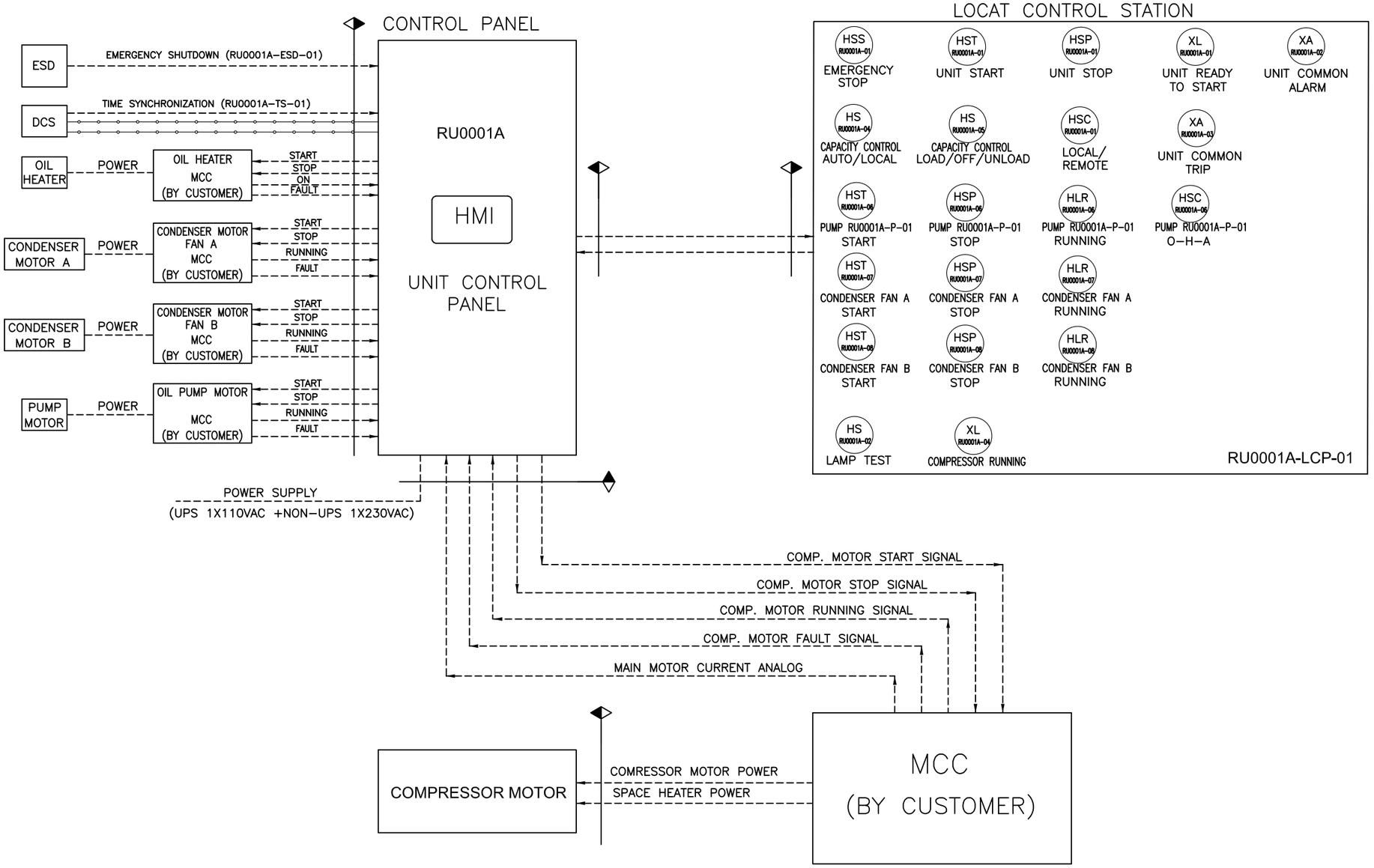
CONSULTING ENGINEER

PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: PROCESS & INSTRUMENTATION DIAGRAM (P&ID)-RU

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-PR-PID-002	00	A3	NTC	6 of 7



CONNECTION LIST			
NO.	LOCATION	DESCRIPTION	SIZE
TP-01	PACKAGE	CHILLER INLET	3"-300 ANSI RF
TP-02	PACKAGE	CHILLER OUTLET	3"-300 ANSI RF
TP-03	PACKAGE	FILTER DRYER PROPYLENE INLET	1"-300
TP-04	PACKAGE	INSTRUMENT AIR SUPPLY	3/4"-150

REFERENCE DRAWING	DWG NO.	REV.

NOTES :

HOLDE:

EQUIPMENT LIST:

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00		ISSUED FOR APPROVAL (IFA)	A.K.	F.SH.	A.M.

CLIENT

پتروشیمی توسعه پارک صنعتی گوهر افق

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