

NOTES

LIST OF REFERENCE LBI AND INTERNATIONAL STANDARD
GENERAL NOTES:
- ALL PIPING VENTS AND DRAINS ARE 3/4" EXCEPT AS NOTED
- ALL VALVED CONNECTIONS TO ATMOSPHERE IN PROCESS SERVICE
- HIGH POINT VENTS AND LOW POINT DRAINS ARE PROVIDED BUT ARE NOT SHOWN ON PAID'S...

NOTES FOR PIPING SYMBOLS
(1) SEE PIPING CLASSES
(2) SEE REFERENCE DOCUMENT N.
SYMBOLS REPRESENT IN A SIMPLIFIED WAY THE COMPLETE PHYSICAL INSTALLATION OF PIPING CLASSES...

NOTES FOR INSTRUMENT SYMBOLS
GENERAL NOTES:
(a) THE IDENTIFICATION FOR VERY HIGH OR MAXIMUM IS HH
(b) THE IDENTIFICATION FOR VERY LOW OR MINIMUM IS LL

CLIENT: MC
CONTRACTOR:
DEHDAHST PETROCHEMICAL INDUSTRY COMPANY
DEHDAHST HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE: PIPING AND INSTRUMENT DIAGRAM (P&ID)

DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010

Proj. Code Area No. VD Material Code PO No. Disc. Code Doc. Type Serial No. Rev. Sheet No.

PURCHASER'S COMMENT/APPROVAL STATUS
1. AP: Approved (Released for Manufacturing)
2. AN: Approved With Minor Comments (Fabrication may Proceed)

Date: XX.XX.XX Signature: VENDOR DOC. NO.: DPIC98-12-001-000-VD-1002-ME-PID-010-02

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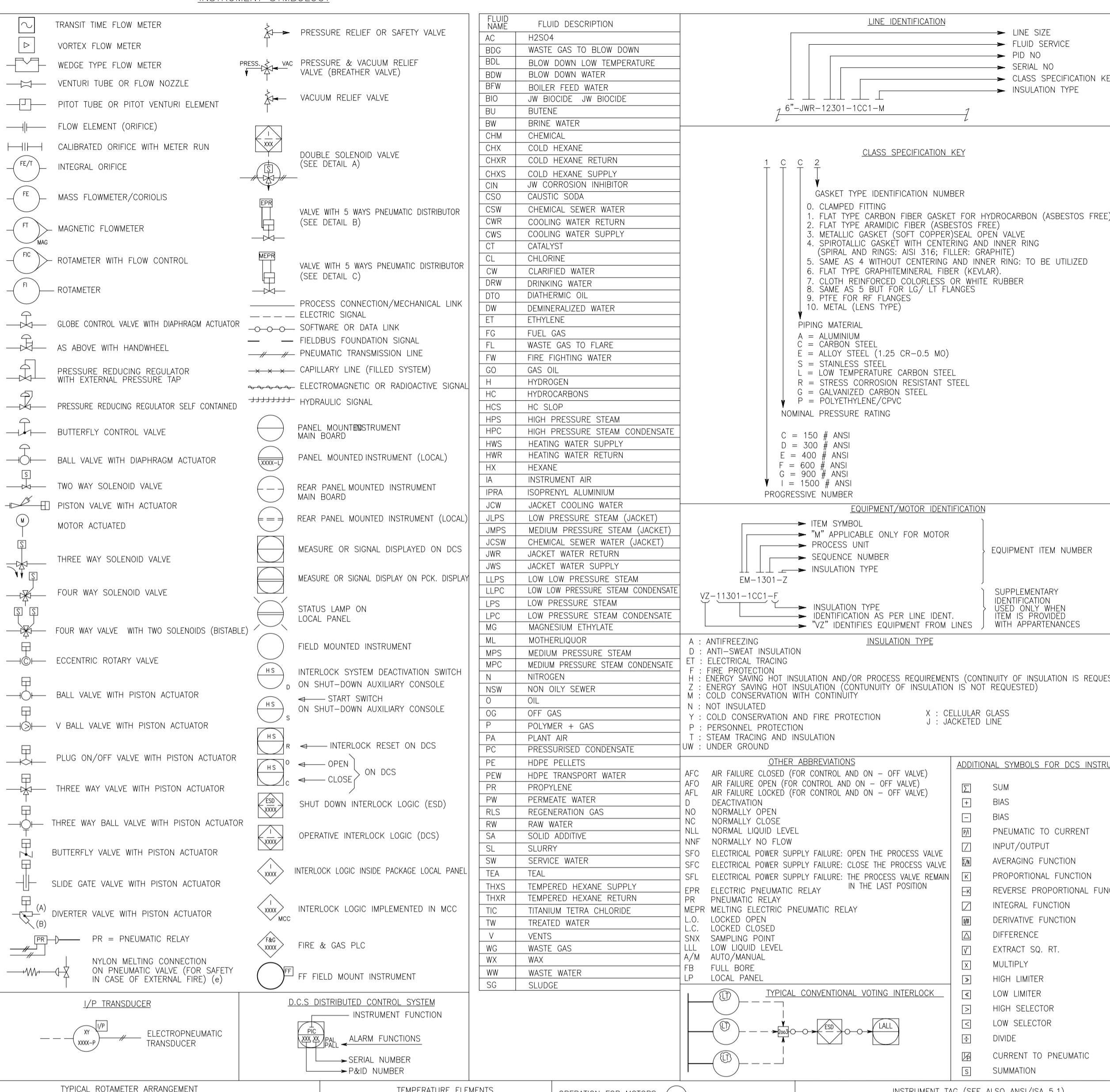
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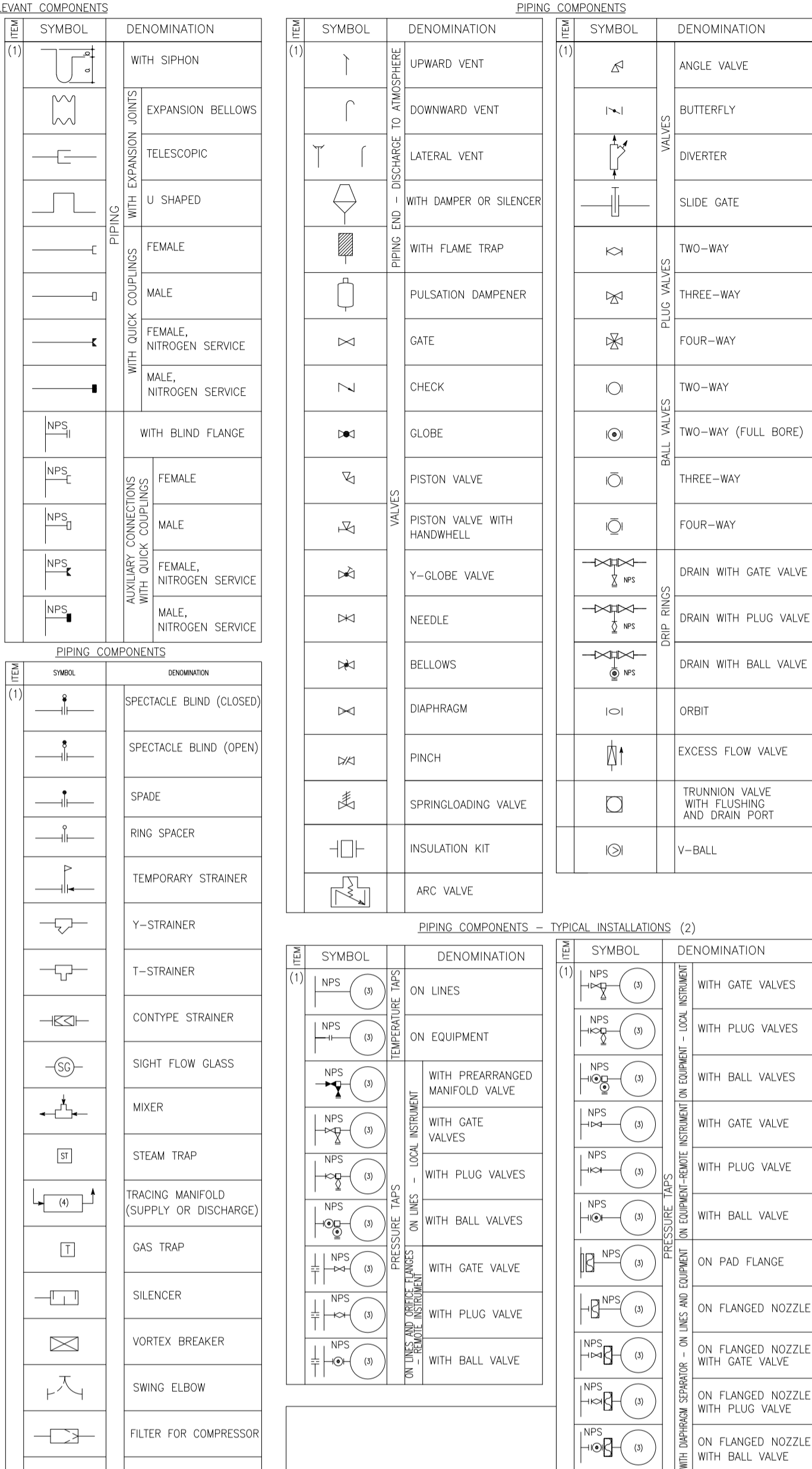
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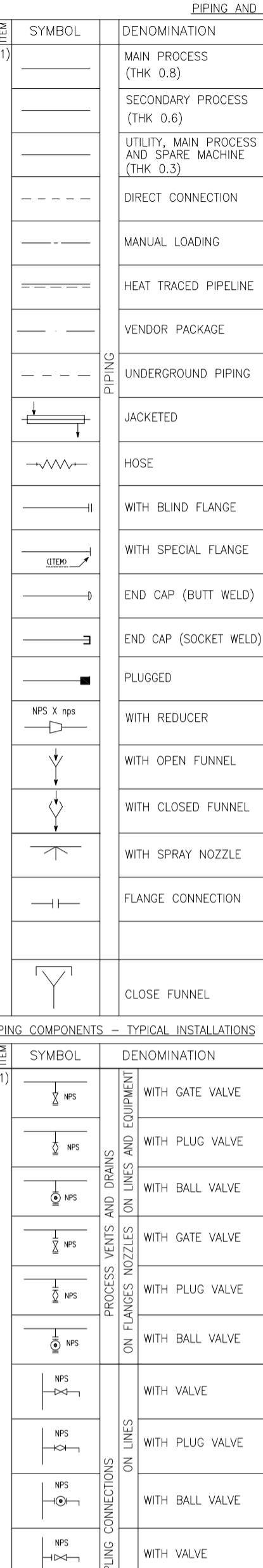
INSTRUMENT SYMBOLS



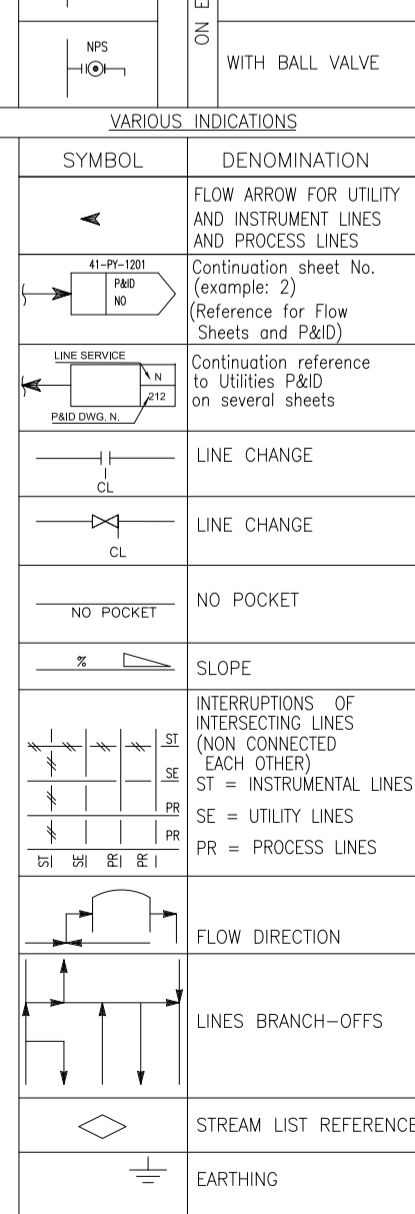
PIPING SYMBOLS



PIPING AND RELEVANT COMPONENTS



VARIOUS INDICATIONS



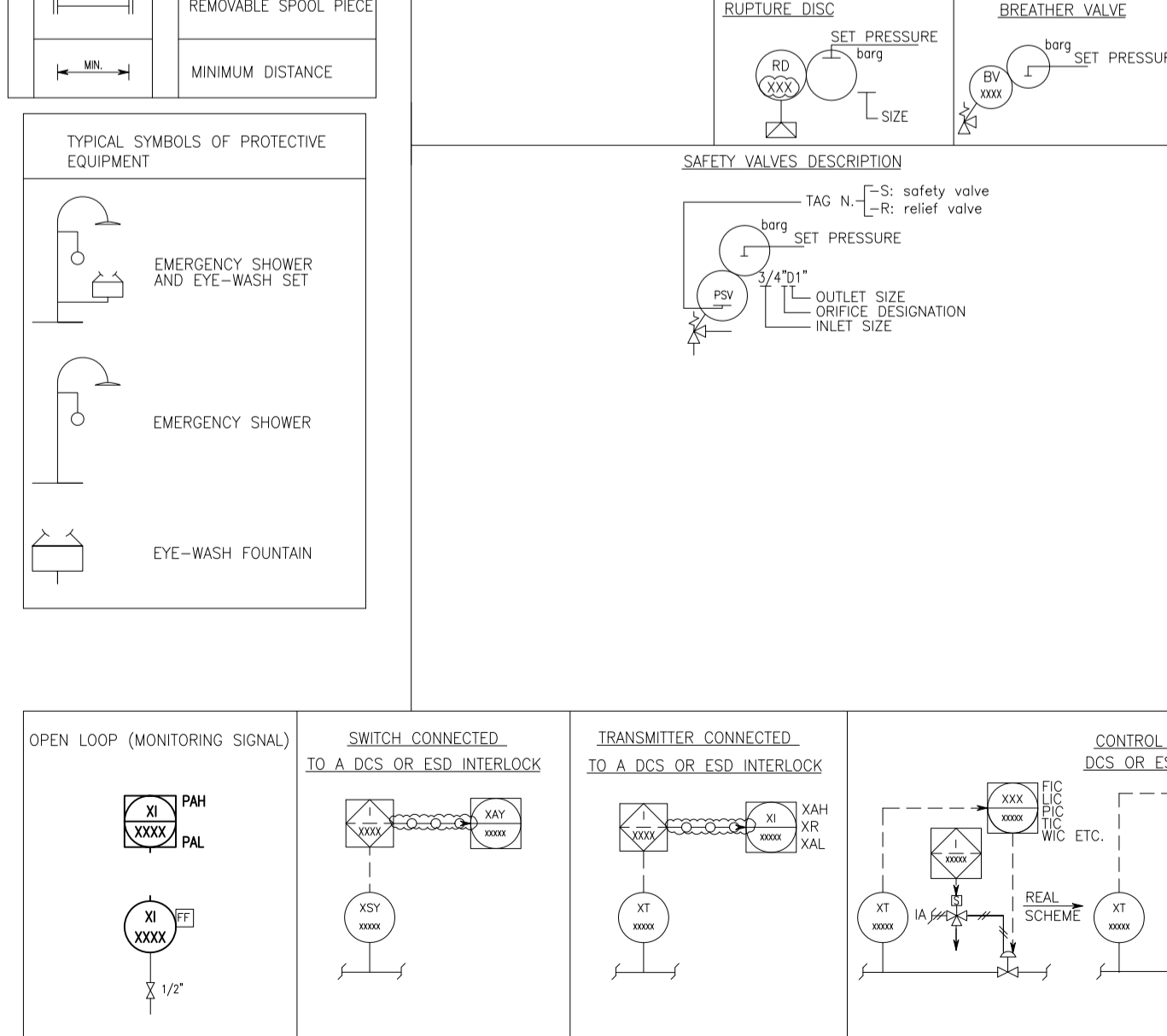
EMERGENCY SHOWERS



EMERGENCY SHOWERS



PIPING COMPONENTS - TYPICAL INSTALLATIONS (2)



PIPING COMPONENTS - TYPICAL INSTALLATIONS (2)



PIPING COMPONENTS - TYPICAL INSTALLATIONS (2)



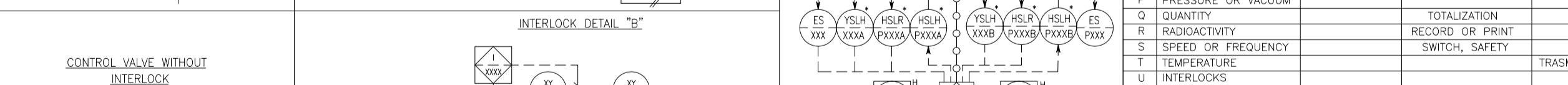
TEMPERATURE ELEMENTS



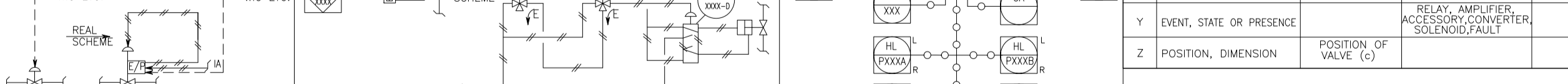
OPERATION FOR MOTORS



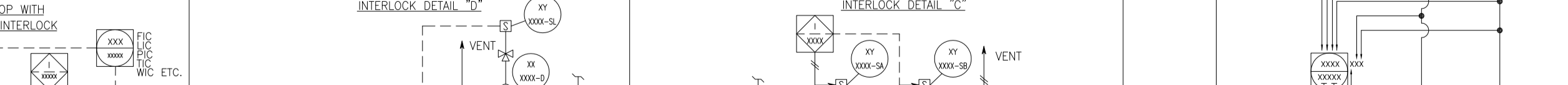
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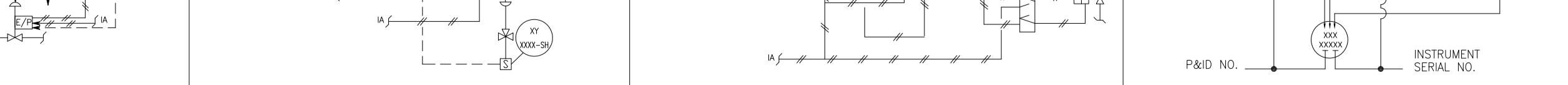
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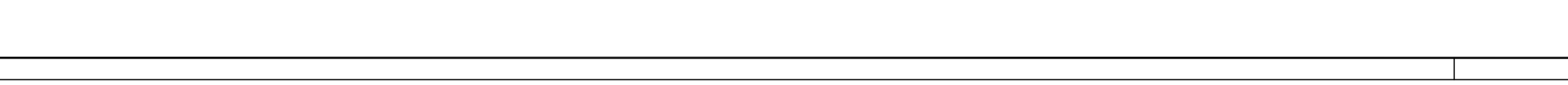
INTERLOCK DETAIL "C"



INTERLOCK DETAIL "D"



INTERLOCK DETAIL "E"



INTERLOCK DETAIL "F"



INSTRUMENT TAG (SEE ALSO ANSI/ISA 5.1)

Table with columns for Instrument Tag, Description, and Notes. Includes entries for ANALYSIS, BURNER FLAME, CONDUCTIVITY, etc.

INSTRUMENT TAG (SEE ALSO ANSI/ISA 5.1)

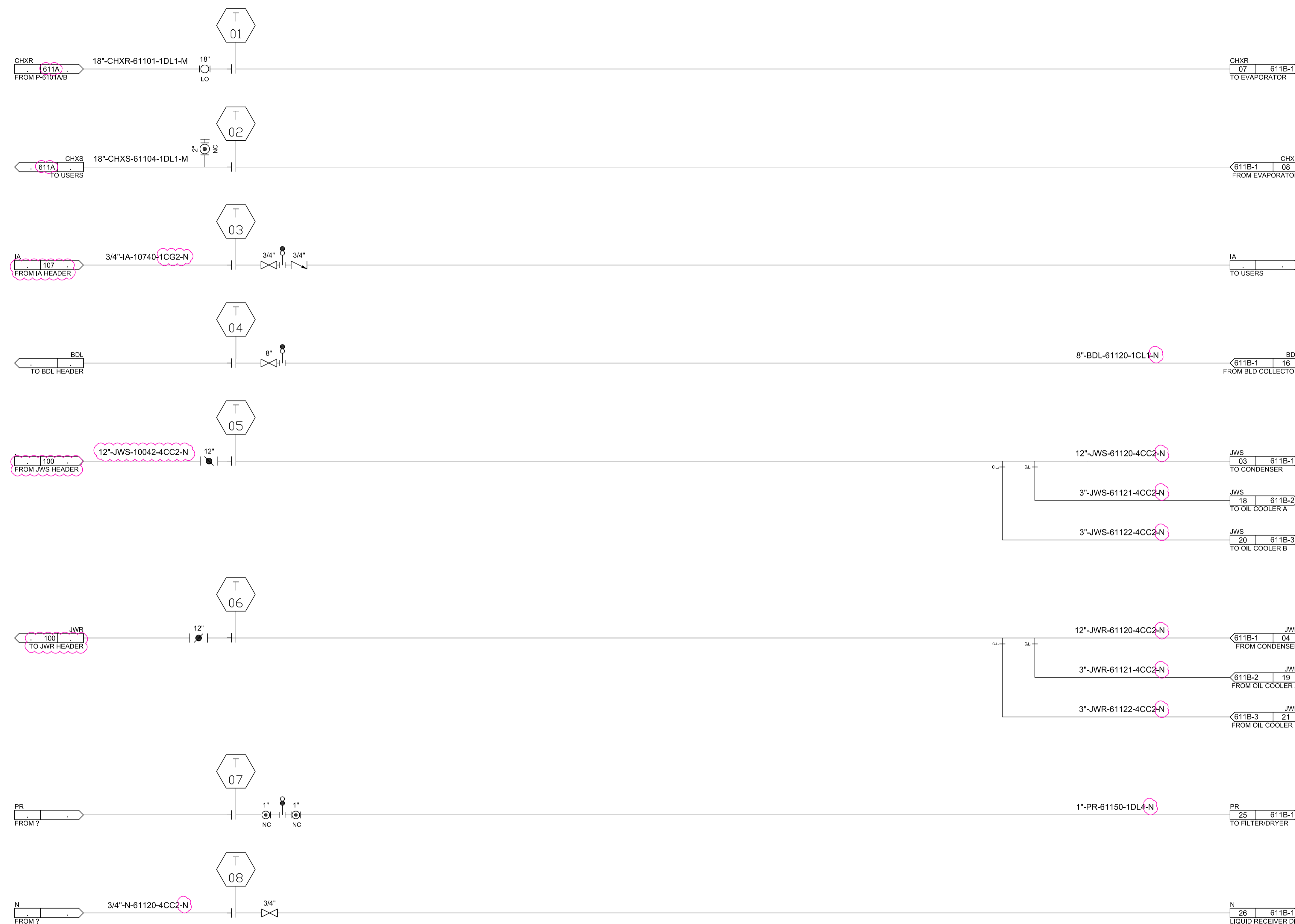
Table with columns for Instrument Tag, Description, and Notes. Includes entries for ANALYSIS, BURNER FLAME, CONDUCTIVITY, etc.

INSTRUMENT TAG (SEE ALSO ANSI/ISA 5.1)

Table with columns for Instrument Tag, Description, and Notes. Includes entries for ANALYSIS, BURNER FLAME, CONDUCTIVITY, etc.

NOTES

BATTERY LIMIT NOZZLE LIST					
ITEM NO.	DESCRIPTION	SIZE	RATING	FACING	FINISH
T-01	HEXANE INLET	18"	300#	RF	150-250-AARH
T-02	HEXANE OUTLET	18"	300#	RF	150-250-AARH
T-03	INSTRUMENT AIR	3/4"	150#	RF	150-250-AARH
T-04	BLOW DOWN GAS	8"	150#	RF	150-250-AARH
T-05	JACKET WATER SUPPLY	12"	150#	RF	150-250-AARH
T-06	JACKET WATER RETURN	12"	150#	RF	150-250-AARH
T-07	PROPYLENE	1"	300#	RF	150-250-AARH
T-08	NITROGEN	3/4"	150#	RF	150-250-AARH



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CLIENT:	MC	CONTRACTOR:
<small>Persian Gulf Petrochemical Industries Co.</small>	<small>Persian Gulf Petrochemical Industries Development Management Company (PGPIC)</small>	<small>Petropars Ltd. NARGAN</small>

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PROJECT TITLE:
**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
 DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**

DRAWING TITLE:
PIPING AND INSTRUMENT DIAGRAM (P&ID)

DOCUMENT No: **DPIC9812-000-VD-1002-ME-PID-0010** SC: **A1**

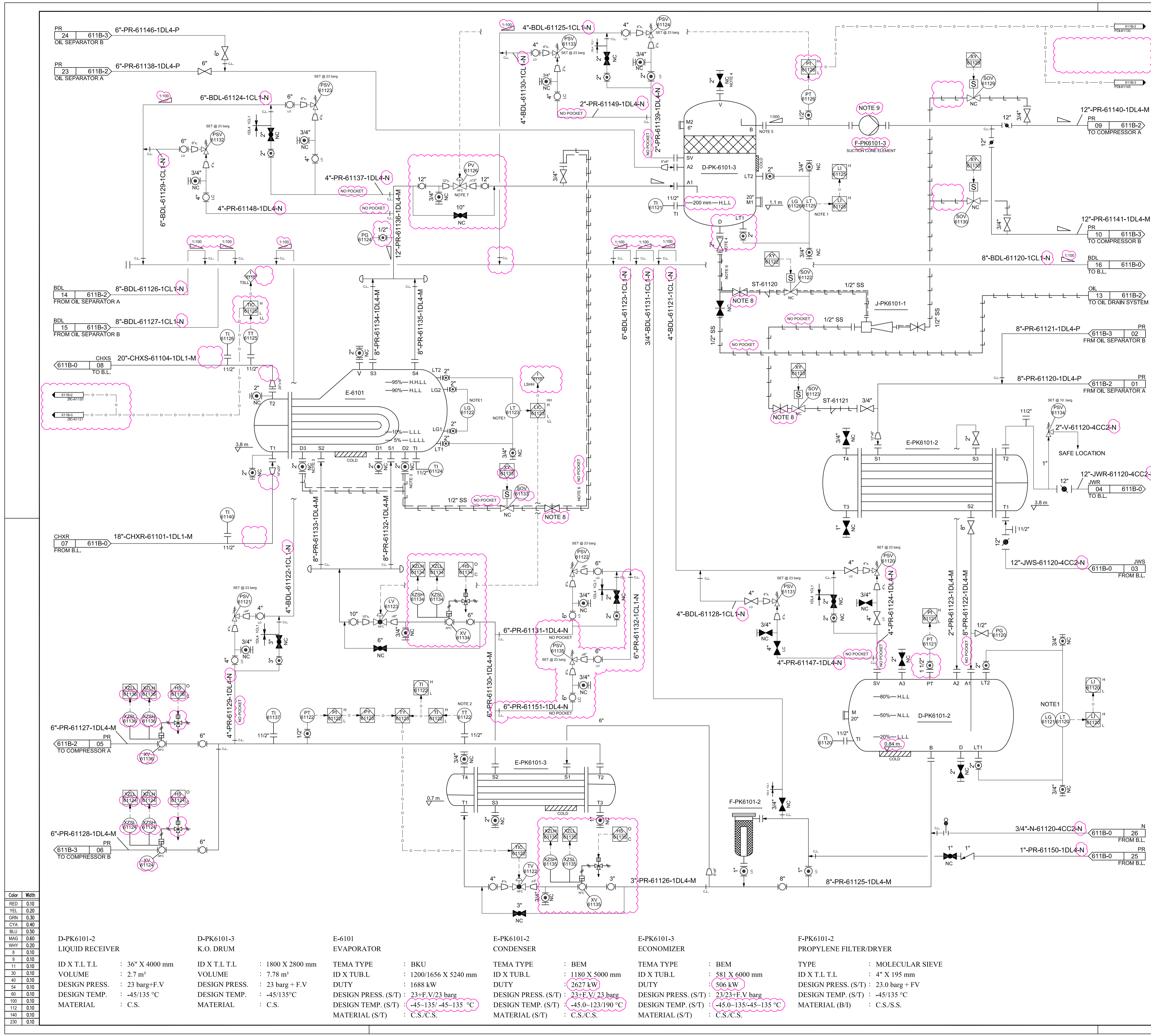
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DPIC9812	000	VD	1002	4150	ME	PID	010	D2	2 OF 5

PURCHASER'S COMMENT/APPROVAL STATUS: _____ PURCHASER: _____
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 3. NF: Approved With Comments (Fabrication not Proceed)
 4. RJ: Rejected
 5. NR: Not be Returned
 Date: XX.XX.XX Signature: _____

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D2	05-Feb-22	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA
D1	29-Dec-21	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA



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CYA	0.40
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54	0.10
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100	0.10
112	0.10
140	0.10
200	0.10



- NOTES**
- NOTE 1: LT & LG ARE MAGNETIC TYPE.
 - NOTE 2: TEMP. TRANSMITTER TO BE LOCATED AS FAR AS POSSIBLE FROM ECONOMIZER
 - NOTE 3: OIL RECOVERY NOZZLE.
 - NOTE 4: NITROGEN FILL OR PURGE/DRAIN.
 - NOTE 5: DELETED.
 - NOTE 6: ELECTRICAL TRACING. T= 30 °C.
 - NOTE 7: TYPE OF CV WILL BE DEFINED LATER.
 - NOTE 8: TO BE SET DURING COMMISSIONING.
 - NOTE 9: SUCTION CONE ELEMENT TO BE REMOVED AFTER 200 hr OPERATION.

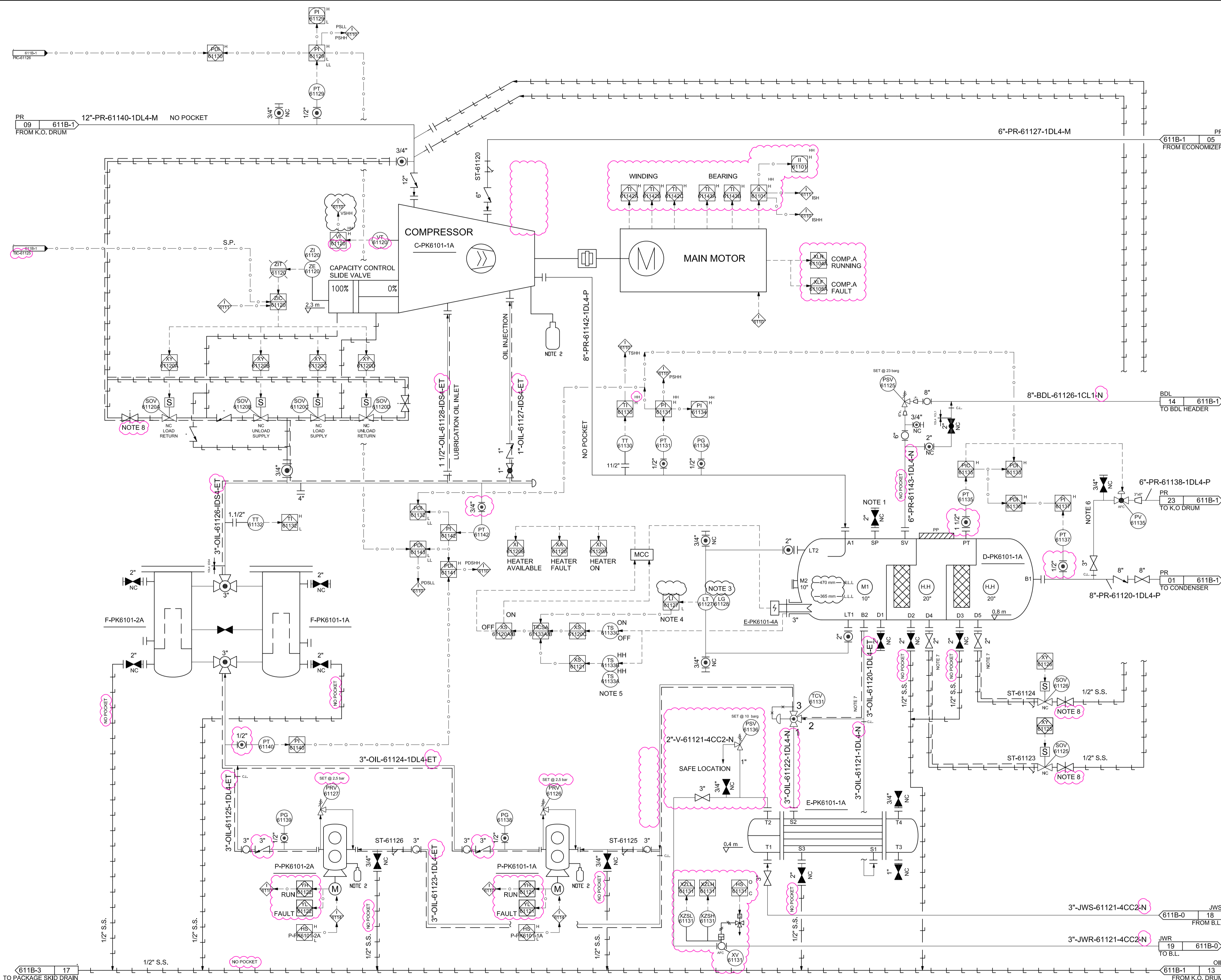
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200	0.10

D-PK6101-2 LIQUID RECEIVER	D-PK6101-3 K.O. DRUM	E-6101 EVAPORATOR	E-PK6101-2 CONDENSER	E-PK6101-3 ECONOMIZER	F-PK6101-2 PROPYLENE FILTER/DRYER
ID X T.L T.L : 36" X 4000 mm	ID X T.L T.L : 1800 X 2800 mm	TEMA TYPE : BKU	TEMA TYPE : BEM	TEMA TYPE : BEM	TYPE : MOLECULAR SIEVE
VOLUME : 2.7 m ³	VOLUME : 7.78 m ³	ID X TUB.L : 1200/1656 X 5240 mm	ID X TUB.L : 1180 X 5000 mm	ID X TUB.L : 581 X 6000 mm	ID X T.L T.L : 4" X 195 mm
DESIGN PRESS. : 23 barg+F.V	DESIGN PRESS. : 23 barg + F.V	DUTY : 1688 kW	DUTY : 2627 kW	DUTY : 506 kW	DESIGN PRESS. (S/T) : 23.0 barg + FV
DESIGN TEMP. : -45/135 °C	DESIGN TEMP. : -45/135 °C	DESIGN PRESS. (S/T) : 23+F.V/23 barg	DESIGN PRESS. (S/T) : 23+F.V/23 barg	DESIGN PRESS. (S/T) : 23/23+F.V barg	DESIGN TEMP. (S/T) : -45/135 °C
MATERIAL : C.S.	MATERIAL : C.S.	DESIGN TEMP. (S/T) : -45-135/ -45-135 °C	DESIGN TEMP. (S/T) : -45.0-123/190 °C	DESIGN TEMP. (S/T) : -45.0-135/-45-135 °C	MATERIAL (B/I) : C.S./S.S.
		MATERIAL (S/T) : C.S./C.S.	MATERIAL (S/T) : C.S./C.S.	MATERIAL (S/T) : C.S./C.S.	

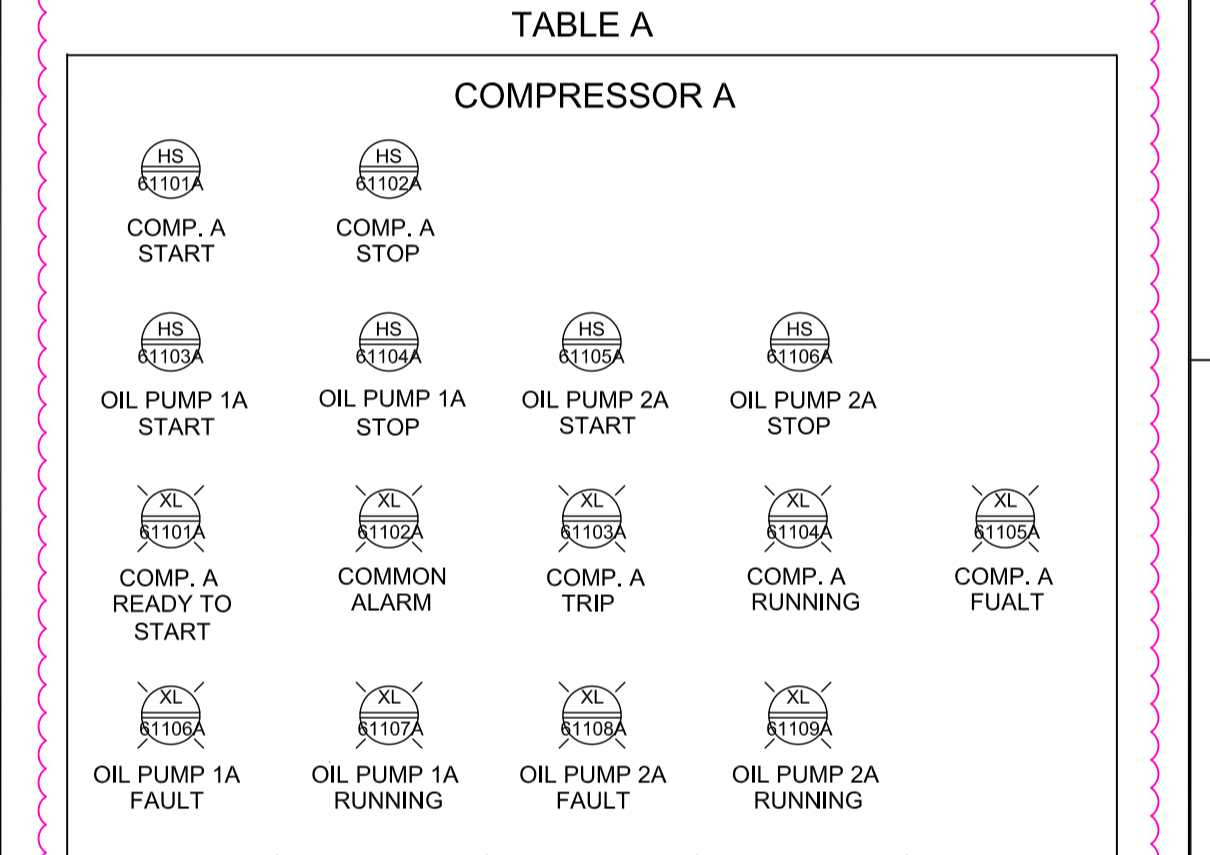
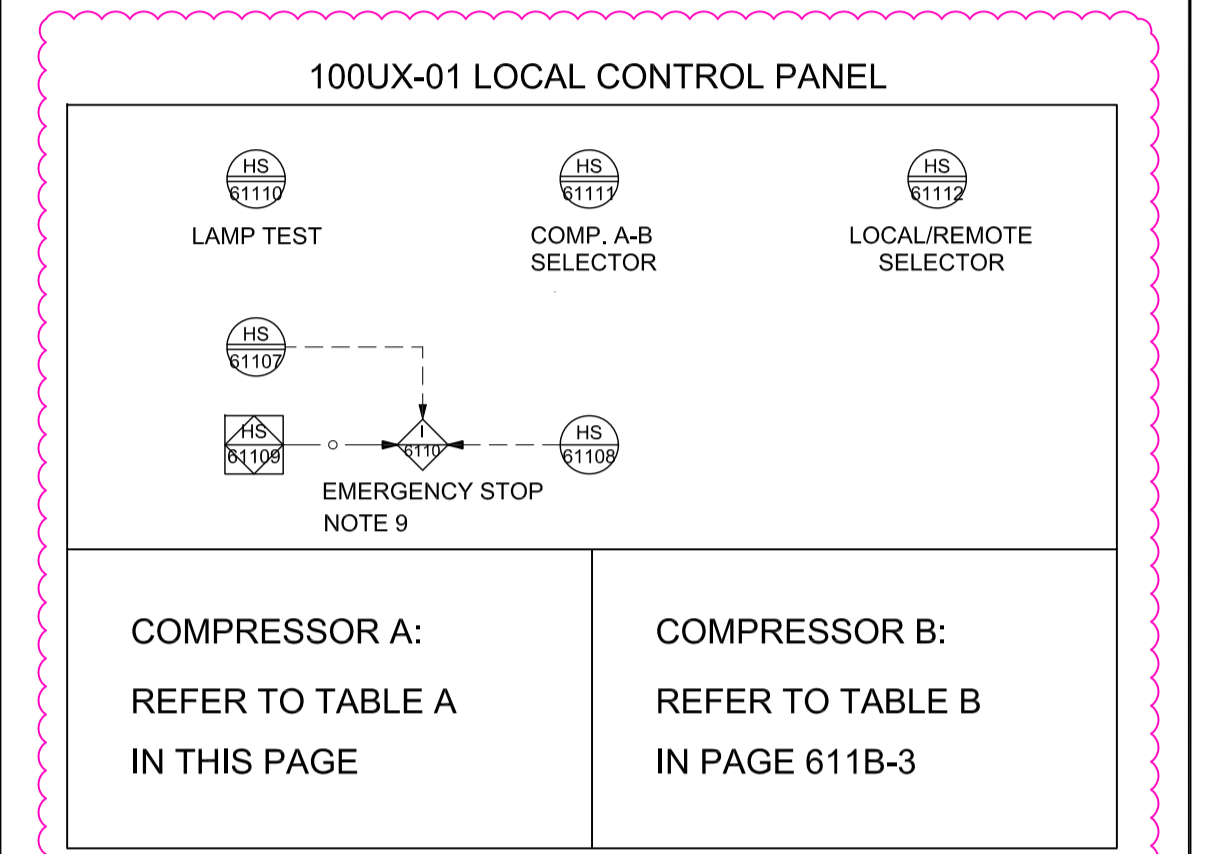
PAGE NO. 611B-1

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PROJECT TITLE: DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT					
DRAWING TITLE: PIPING AND INSTRUMENT DIAGRAM (P&ID)					
DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010	SC: SIZE: A1				
Proj. Code DPIC9812	Area No. 000	VD 1002			
Material Code 4150	PO No. ME	Disc. Code PID			
Doc. Type 010	Serial No. D2	Rev. Sheet No. 2 OF 4			
PURCHASER'S COMMENT/APPROVAL STATUS:					
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Date: XX.XX.XX	Signature:	VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-02			
REVISIONS:					
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D2	05-Feb-22	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA
D1	29-Dec-21	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOURAZI	A.MALEKINA	A.MALEKINA

KASRAVAND CO.



- NOTES**
- NOTE 1: OIL FILL UP & VACUUM CONNECTION.
 - NOTE 2: COLLECTION POT TO BE EMPTIED ONCE EVERY (X) WEEKS TIME.
 - NOTE 3: MAGNETIC TYPE.
 - NOTE 4: START PERMISSION FOR OIL SEPARATOR HEATER.
 - NOTE 5: 61133A= BOX CUT OUT SWITCH. 61133B= OVERHEAT SWITCH.
 - NOTE 6: START UP BYPASS.
 - NOTE 7: ELECTRICAL TRACING, T= 30 °C.
 - NOTE 8: TO BE SET DURING COMMISSIONING.
 - NOTE 9: EMERGENCY STOP HAND SWITCH TRIGGER WILL TRIP ENTIRE PACKAGE (BOTH COMPRESSORS A & B).



PAGE NO. 611B-2

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C-PK6101-A SCREW COMPRESSOR	D-PK6101-1A OIL SEPARATOR	E-PK6101-1A OIL COOLER	E-PK6101-4A OIL HEATER OIL SEPARATOR	F-PK6101-1A/2A OIL FILTER	P-PK6101-1A/2A OIL PUMP
RATED POWER : 1400 kW	ID X HEIGHT : 1041.4 X 6604 mm	TEMA TYPE : BEM	TYPE : ELECTRICAL	TYPE : CARTRIDGE	TYPE : GEAR
DP PRESSURE : 17.65 bar	VOLUME : 5.9 m ³	ID X TUB.L : 381 X 3000 mm	DESIGN POWER : 1.5 kW	ID X T.L T.L : 8" X 1300 mm	FLOW : 240 L/min
MANUFACTURER : MAYEKAWA	DESIGN PRESS. : 20.69 barg	DUTY : 208 kW		DESIGN PRESS. (S/T) : 25.0 barg + FV	DESIGN PRESS. : 25 barg
COMP. TYPE : OIL FLOODED SCREW	DESIGN TEMP. : -42.8/107.2 °C	DESIGN PRESS. (S/T) : 25/25 barg		DESIGN TEMP. (S/T) : 120 °C	DESIGN TEMP. : 120 °C
MAYEKAWA TYPE : PPN320UD-ME	MATERIAL : C.S.	DESIGN TEMP. (S/T) : 120/190 °C		MATERIAL (B/T) : C.S./S.S.	POWER : 7.5 kW
		MATERIAL (S/T) : C.S./C.S.			DP : 5.2
					MATERIAL : C.S.

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DOCUMENT No: **DPIC9812-000-VD-1002-ME-PID-0010** SC: **19** SIZE: **A1**

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DPIC9812	000	VD	1002	4150	ME	PID	010	D2	3 OF 4

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D0	01-09-2021	ISSUE FOR APPROVAL	R.GOURDARI	A.MALEKINIA	A.MALEKINIA



NOTES

- NOTE 1: OIL FILL UP & VACUUM CONNECTION.
- NOTE 2: COLLECTION POT TO BE EMPTIED ONCE EVERY (X) WEEKS TIME.
- NOTE 3: MAGNETIC TYPE.
- NOTE 4: START PERMISSION FOR OIL SEPARATOR HEATER.
- NOTE 5: 61136A= BOX CUT OUT SWITCH.
61136B= OVERHEAT SWITCH.
- NOTE 6: START UP BYPASS.
- NOTE 7: ELECTRICAL TRACING. T= 30 °C.
- NOTE 8: TO BE SET DURING COMMISSIONING.

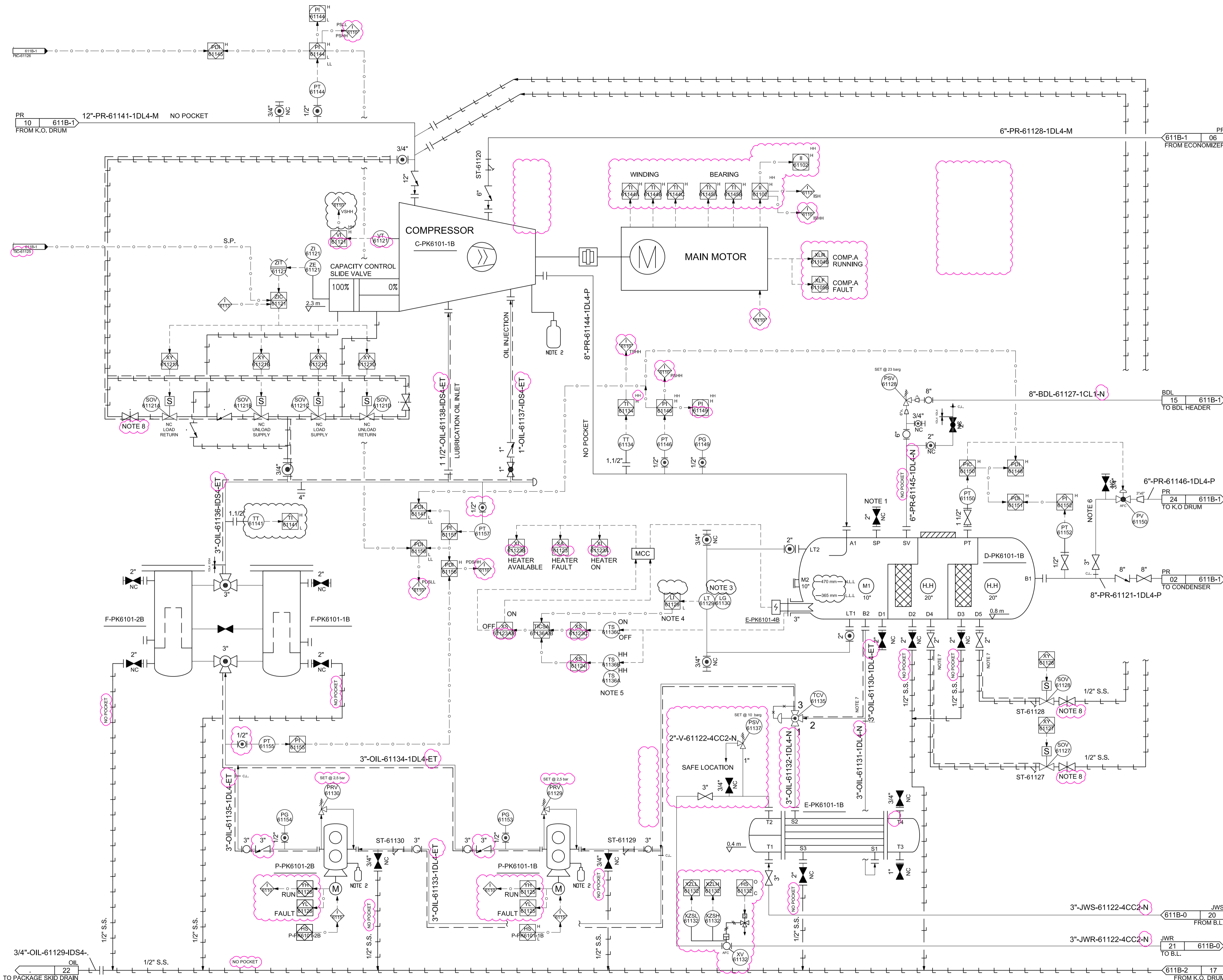


TABLE B

COMPRESSOR B

COMP. B START	COMP. B STOP			
OIL PUMP 1B START	OIL PUMP 1B STOP	OIL PUMP 2B START	OIL PUMP 2B STOP	
COMP. B READY TO START	COMMON ALARM	COMP. B TRIP	COMP. B RUNNING	COMP. B FAULT
OIL PUMP 1B FAULT	OIL PUMP 1B RUNNING	OIL PUMP 2B FAULT	OIL PUMP 2B RUNNING	

PAGE NO. 611B-3

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DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010 SC: 20
SIZE: A1

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DPIC9812	001	VD	4150	299-1002	PR	PID	010	D2	4 OF 4

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KASRAVAND CO.

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200	0.10

Equipment	Specifications
C-PK6101-B SCREW COMPRESSOR	RATED POWER : 1400 kW DP PRESSURE : 17.65 bar MANUFACTURER : MAYEKAWA COMP. TYPE : OIL FLOODED SCREW MAYEKAWA TYPE : PPN320UD-ME
D-PK6101-1B OIL SEPARATOR	ID X HEIGHT : 1041.4 X 6604 mm VOLUME : 5.9 m ³ DESIGN PRESS. : 20.69 barg DESIGN TEMP. : -42.8/107.2 °C MATERIAL : C.S.
E-PK6101-1B OIL COOLER	TEMA TYPE : BEM ID X TUB.L : 381 X 3000 mm DUTY : 208 kW DESIGN PRESS. (S/T) : 25/25 barg DESIGN TEMP. (S/T) : 120/190 °C MATERIAL (S/T) : C.S./C.S.
E-PK6101-4B OIL HEATER OIL SEPARATOR	TYPE : ELECTRICAL DESIGN POWER : 1.5 kW
F-PK6101-1B/2B OIL FILTER	TYPE : CARTRIDGE ID X T.L.T.L : 8" X 1300 mm DESIGN PRESS. (S/T) : 25.0 barg + FV DESIGN TEMP. (S/T) : 120 °C MATERIAL (B/T) : C.S./S.S.
P-PK6101-1B/2B OIL PUMP	TYPE : GEAR FLOW : 240 L/min DESIGN PRESS. : 25 barg DESIGN TEMP. : 120 °C POWER : 7.5 kW DP : 5.2 MATERIAL : C.S.