

C-2101-C1 A	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4,8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935,5

C-2102-C2 A	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54,9
RATED CAPACITY (kg/h)	8935,5

C-2101-D1 A	
1ST STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	4,9
OPERATING TEMPERATURE (°C)	36,8
DESIGN PRESSURE (barg)	24,5

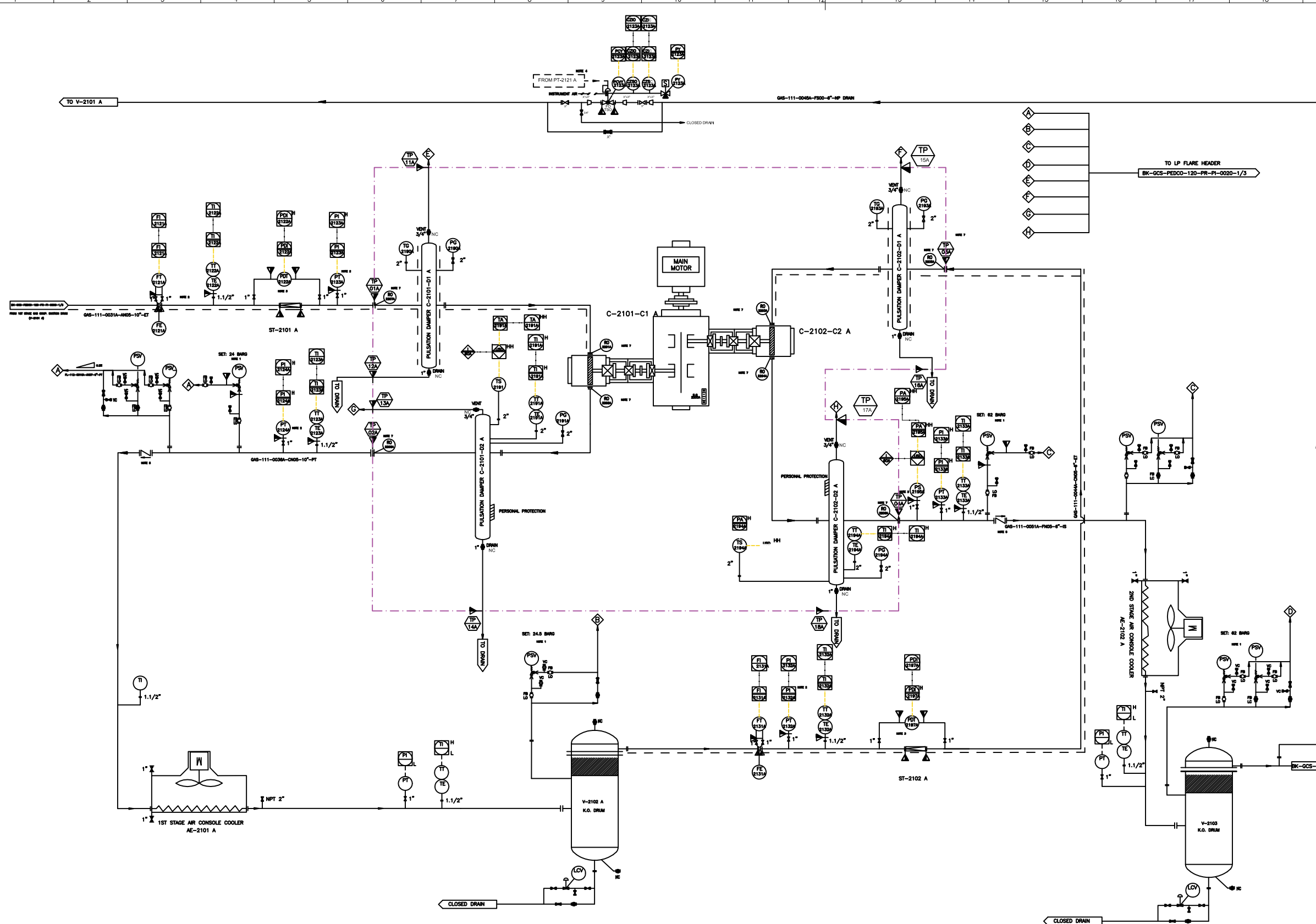
C-2101-D2 A	
1ST STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	18
OPERATING TEMPERATURE (°C)	129
DESIGN PRESSURE (barg)	24,5

C-2102-D1 A	
2ND STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	17,1
OPERATING TEMPERATURE (°C)	59,9
DESIGN PRESSURE (barg)	62

C-2102-D2 A	
2ND STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	54,9
OPERATING TEMPERATURE (°C)	147
DESIGN PRESSURE (barg)	62

V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI			
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI			
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI			
REV.	DATE	P.O.I.	PREP.	CHK.	APP.		AUT.	
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES								
PROJECT NO.: ---								
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:					
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES						 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM PROCESS GAS								
SCALE	SIZE	DRAWING NO.				SHEET NO.	REV.	
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001				1A OF 10	V02	

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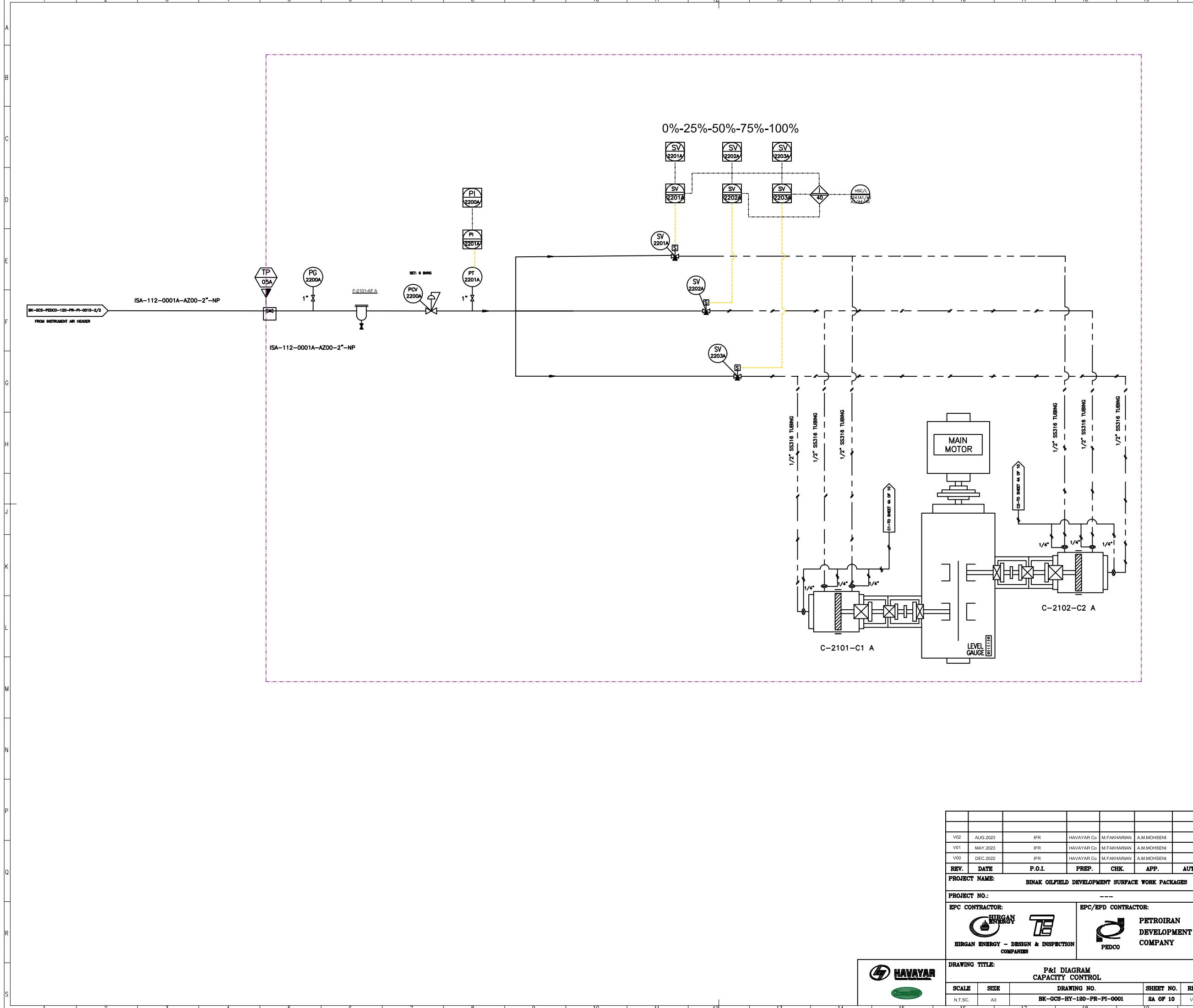


REFERENCE DRAWINGS	DWG. NUMBER
1. MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES	BK-GCS-PEDCO-120-ME-01-0031_006
2. 1st STAGE GAS COMPRESSION SUCTION DRUMS	BK-GCS-PEDCO-120-PR-PI-0006_006
3. 1st STAGE GAS COMPRESSION COMPRESSORS	BK-GCS-PEDCO-120-PR-PI-0007_006
4. 1st STAGE GAS COMPRESSION AIR COOLERS	BK-GCS-PEDCO-120-PR-PI-0008_006
5. 2nd STAGE GAS COMPRESSION SUCTION DRUMS	BK-GCS-PEDCO-120-PR-PI-0009_006
6. 2nd STAGE GAS COMPRESSION COMPRESSORS	BK-GCS-PEDCO-120-PR-PI-0010_006
7. 2nd STAGE GAS COMPRESSION AIR COOLERS	BK-GCS-PEDCO-120-PR-PI-0011_006
8. 2nd STAGE GAS COMPRESSION DISCHARGE DRUM	BK-GCS-PEDCO-120-PR-PI-0012_006
9. PIPING MATERIAL SPECIFICATION	
10. TAG INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C	BK-GCS-PEDCO-120-PR-SP-0001-001

- Note :
- PSV WILL BE SIZED LATER. THE SUPPLY IS LOOSE.
 - INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 - THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 - SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PT-2121A WILL BE SENT FROM DCS TO UCP BY CLIENT.
 - NON SLAM TYPE CHECK VALVE.
 - ALL INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C.
 - THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
 - THE STATUS OF XV-2121 B AND XV-2133 B ARE SENT TO UCP FOR COMPRESSOR START PERMISSION. COMPRESSOR START PERMISSION IS GIVEN WHILE THESE VALVES ARE OPEN. PSOV-2121A,XZIC-2121A,XZIO,2121A WILL BECONNECTED TO UCP. PSOV-2123A,XZIC-2123A,XZIO,2123A WILL BE CONNECTED TO UCP.

Legend :





REFERENCE DRAWINGS	DWG. NUMBER

Note ;
1. LINE SIZING WILL BE FINALIZED.
2. THE UNLOADERS ARE AIR TO LOAD TYPE.

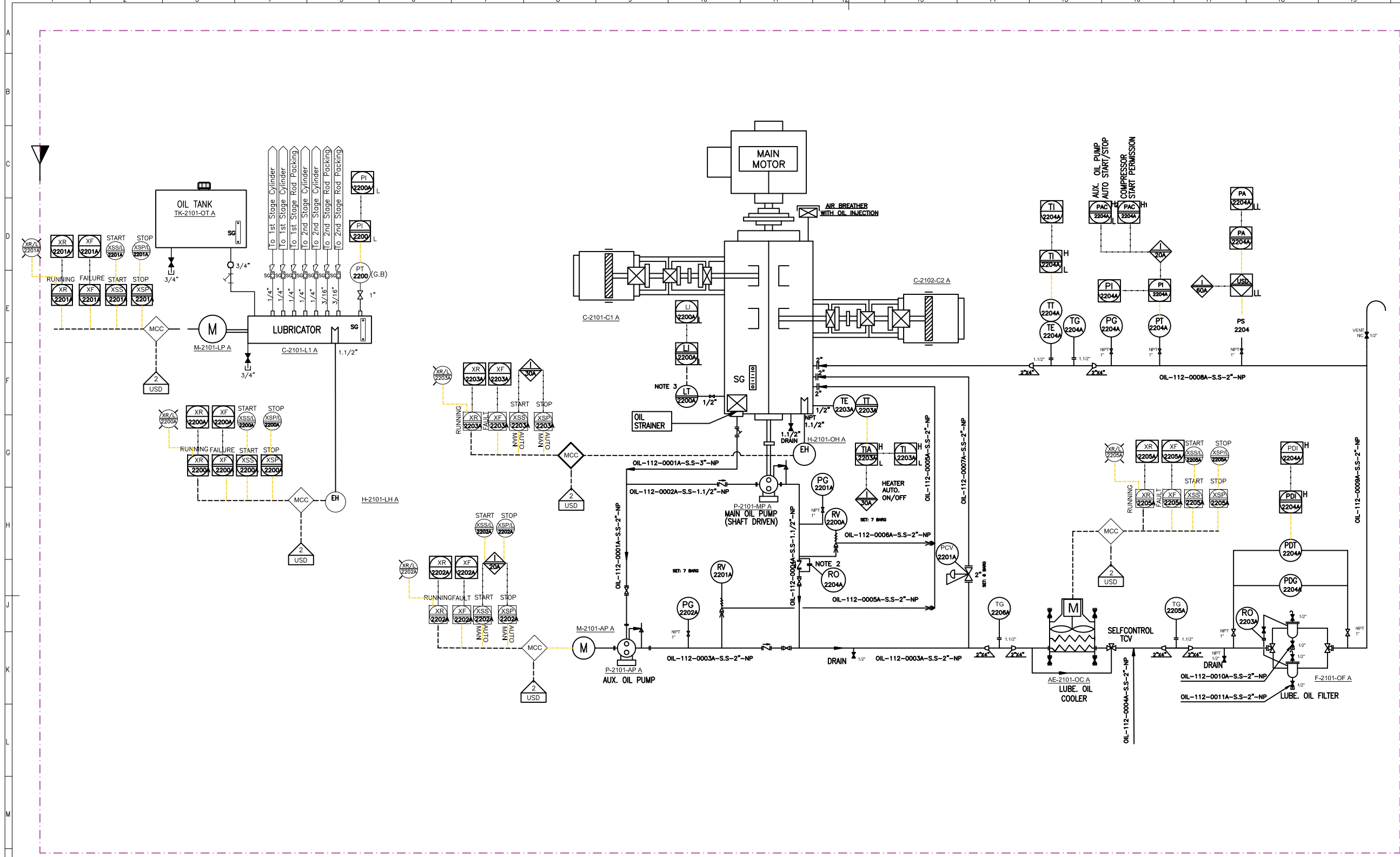
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REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
V02	AUG. 2023	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY. 2023	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC. 2022	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI	

PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:		---	
EPC CONTRACTOR:	EPC/EPD CONTRACTOR:		
 HIRGAN ENERGY HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM CAPACITY CONTROL			
SCALE	SIZE	DRAWING NO.	SHEET NO.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001	2A OF 10

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV.	APPR.
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION		BY:	DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
					REVISION



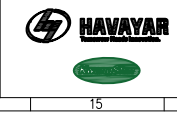


P-2101-MP A	
MAIN OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER	SHAFT DRIVEN
RATED CAPACITY (L/min)	131

P-2101-AP A	
AUX. OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER (kW)	WILL BE FINALIZED
RATED CAPACITY (L/min)	131

F-2101-OF A	
LUBE OIL FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
MATERIAL	S.S.
MESH SIZE (MICRON)	10

AE-2101-OC A	
LUBE OIL COOLER	
TYPE	AIR COOLER
OPERATING PRESSURE (barg)	5
DESIGN PRESSURE (barg)	10
OPERATING TEMPERATURE (°C)	70/60



V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAQ OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM LUBRICATION SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			3A OF 10	V02
16		17	18	19		

REFERENCE DRAWINGS

DWG. NUMBER

Note :

1. LINE SIZING WILL BE FINALIZED.
2. INSTEAD OF RO, DRILLED CHECK VALVE MAY BE USED.
3. DIFFERENTIAL PRESSURE TYPE.

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

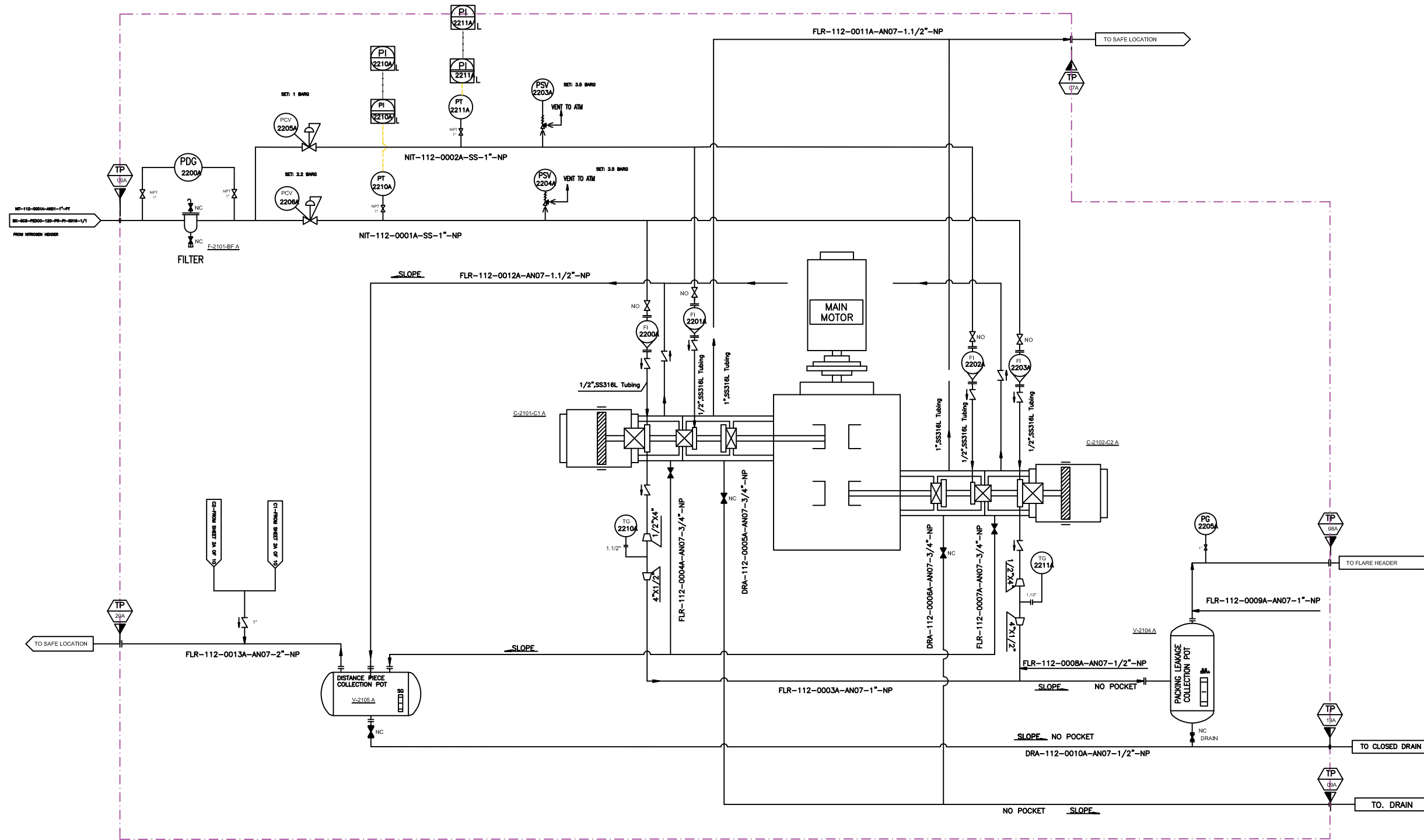
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BINA K OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:				
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION



V-2104 A	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

F-2101-BF A	
BUFFER GAS FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	7.5
MATERIAL	S.S

V-2105 A	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

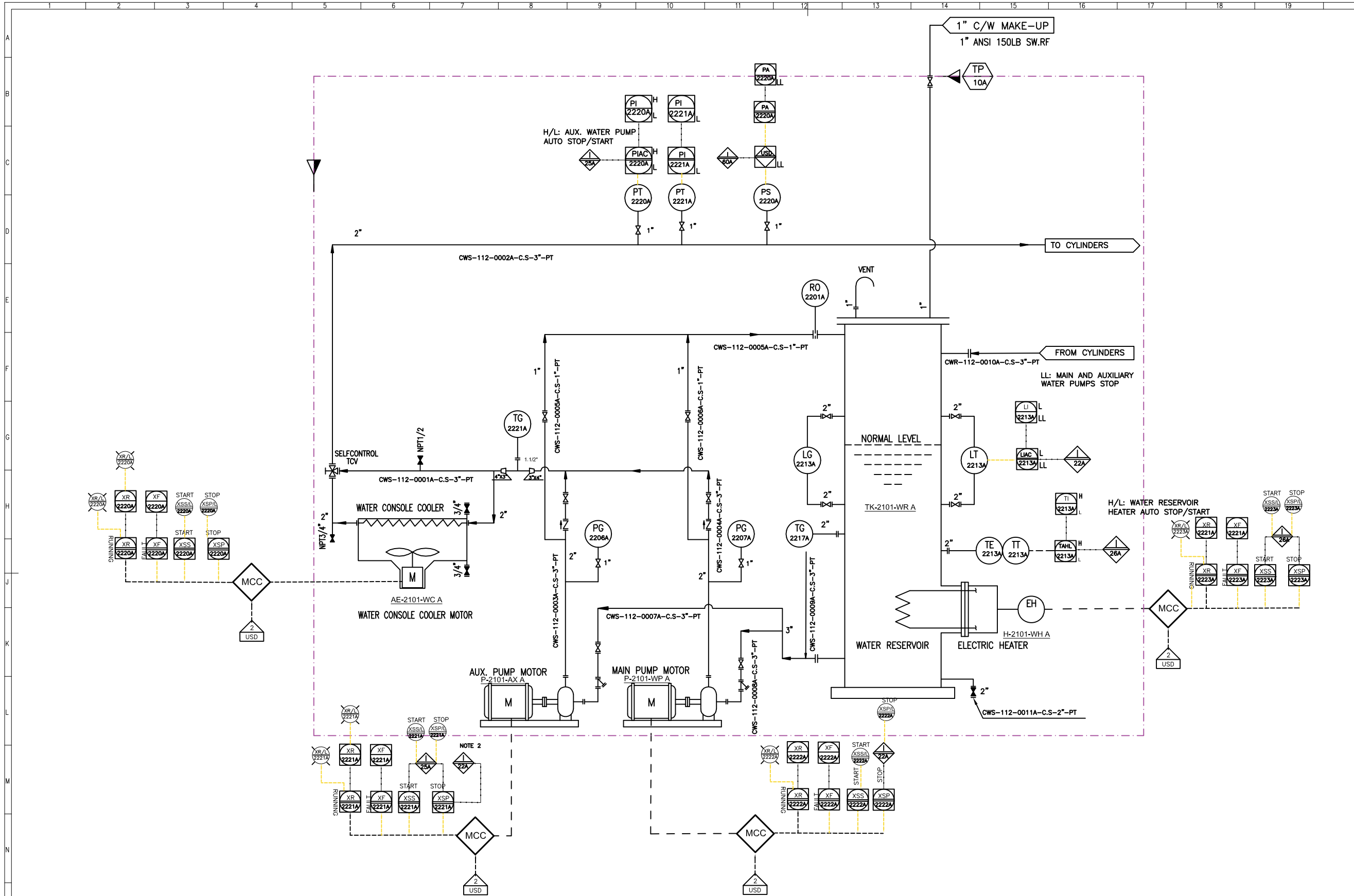
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							
PROJECT NO.: ---							
EPC CONTRACTOR:				EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES				 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM N2 PURGING SYSTEM							
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			4 OF 10	V02	

Note :
1. LINE SIZING WILL BE FINALIZED.

Legend :

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Note :
1. LINE SIZING WILL BE FINALIZED.
2. I-22 INTERLOCK HAS PRIORITY OVER I-25

Legend :

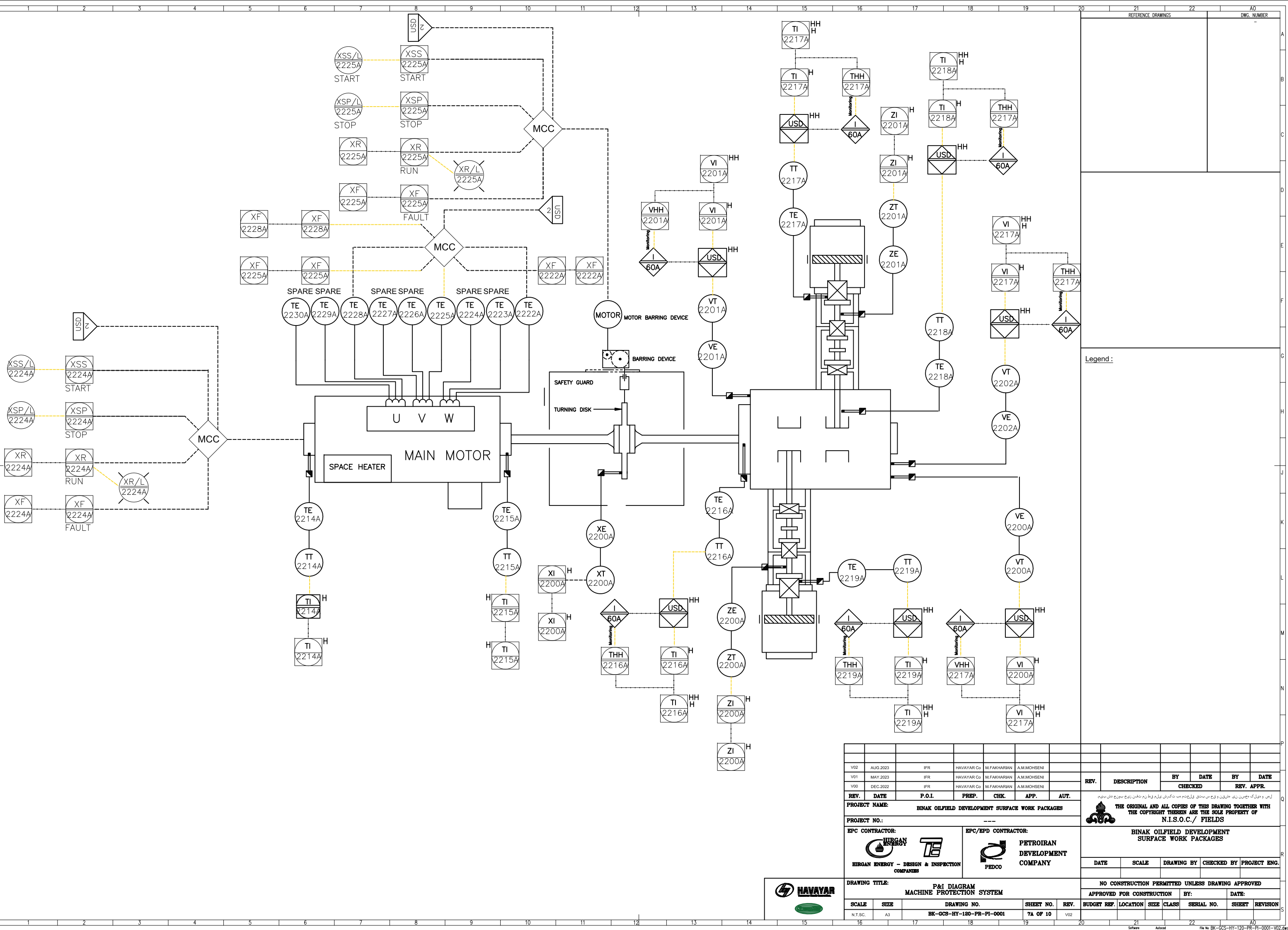
AE-2101-WC A	
WATER COOLER	
TYPE	AIR COOLER
DESIGN PRESSURE (barg)	7
OPERATING PRESSURE (barg)	3
DESIGN TEMPERATURE (°C)	85
OPERATING TEMPERATURE (°C)	65/58

P-2101-WP A	
MAIN WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	WILL BE FINALIZED
OPERATING CAPACITY (TON/H)	17.6
RATED HEAD (M)	40

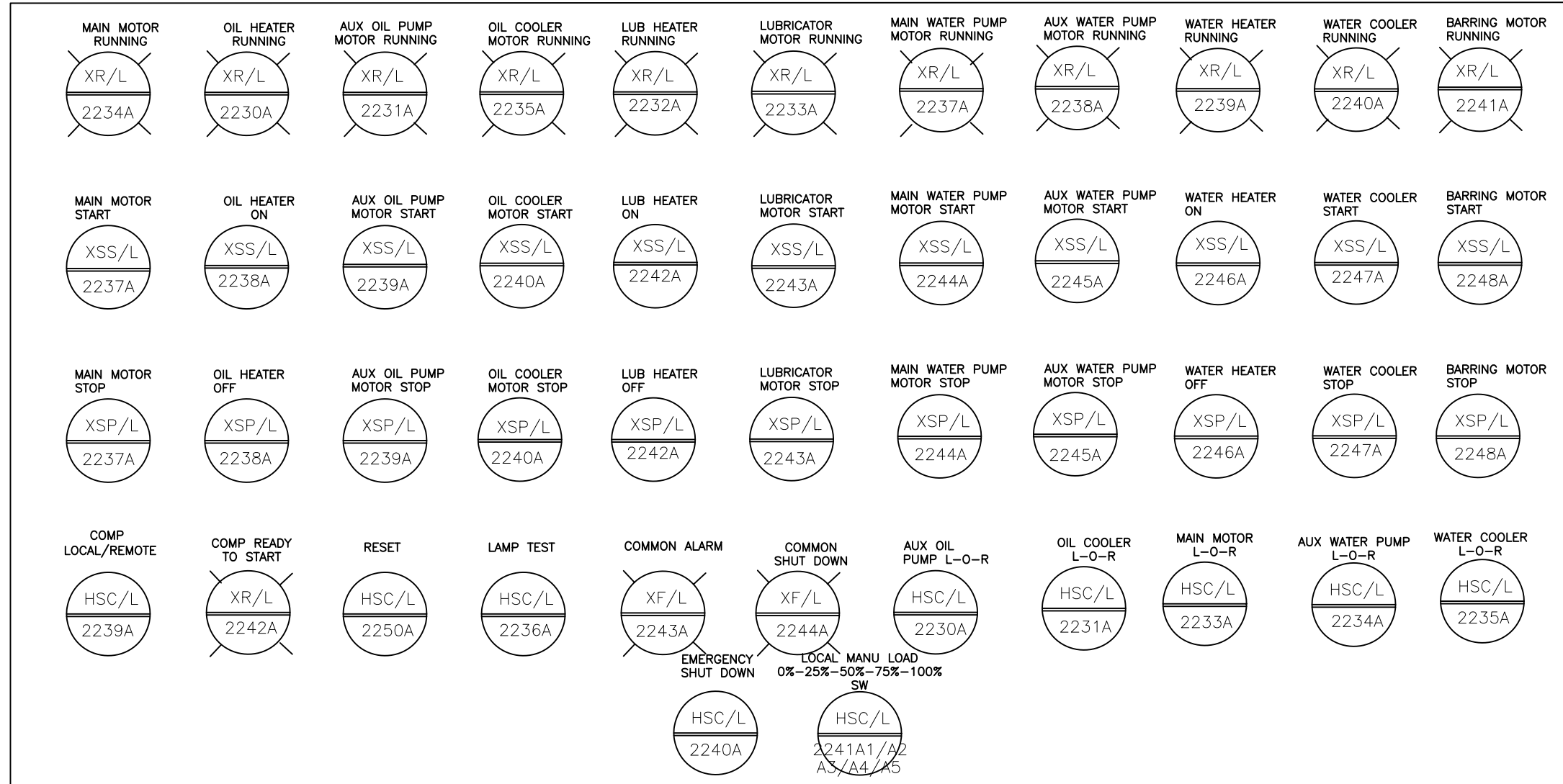
P-2101-AX A	
AUX. WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	WILL BE FINALIZED
OPERATING CAPACITY (TON/H)	17.6
RATED HEAD (M)	40

V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY  HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PEDCO PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM PLAN D COOLING WATER SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			5A OF 10	V02

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
					REVISION



LOCAL CONTROL STATION 2101 A

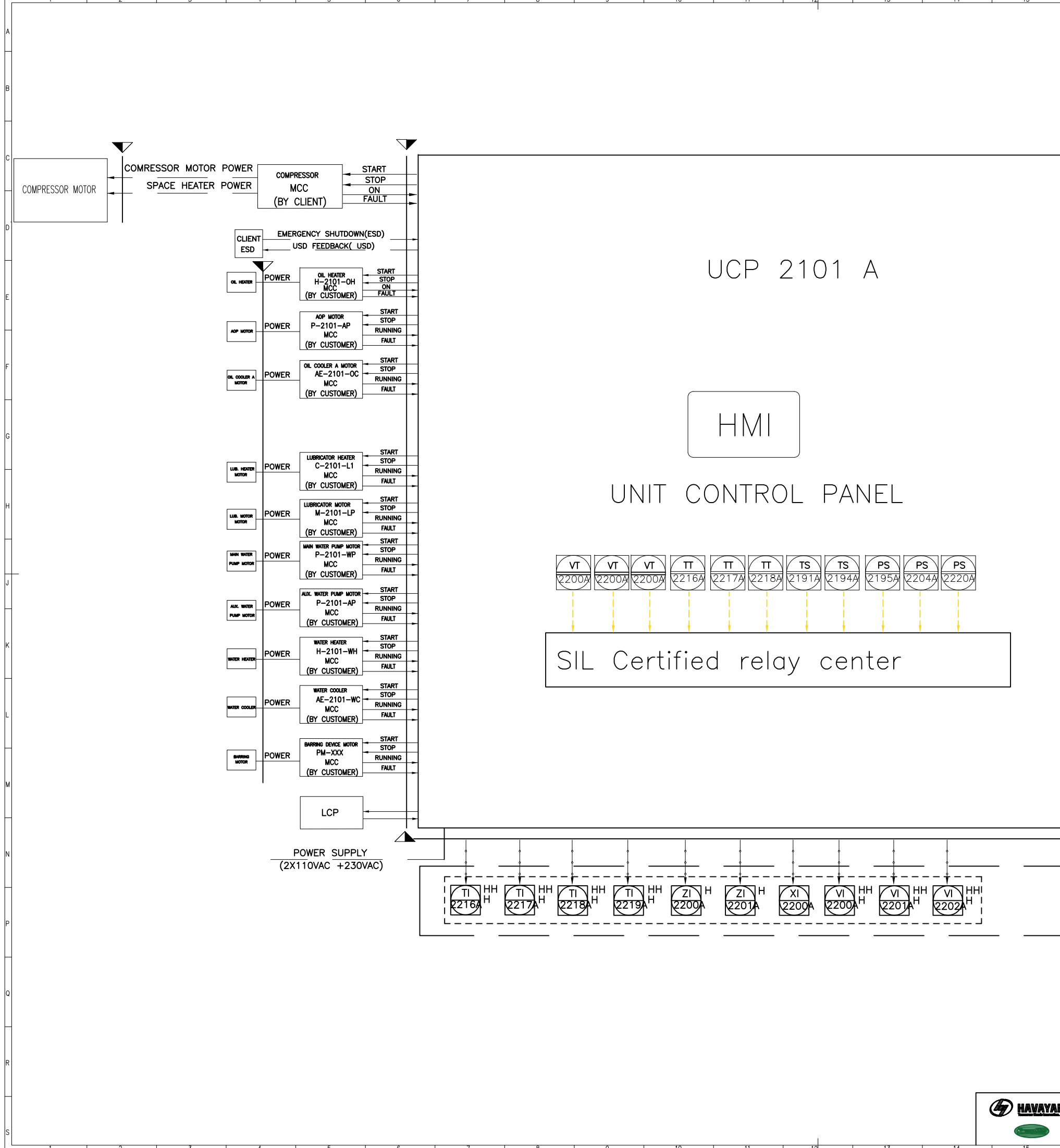


Note :

Signals of LCP will be connected to UCP.

Legend :

[illegible]



Legend :

REV.

DESCRIPTION

BY

DATE

BY

DATE

REV.

APPR.

REV.

DATE

P.O.I.

PREP.

CHK.

APP.

AUT.

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.:

EPC CONTRACTOR:

HIRGAN ENERGY

HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPC/EPD CONTRACTOR:

PETROIRAN DEVELOPMENT COMPANY

PEDCO

DRAWING TITLE:

P&ID DIAGRAM
UNIT CONTROL PANEL

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

N.T.S.C.

A3

BK-GCS-HY-120-PR-PI-0001

9A OF 10

V02

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

REVISION

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

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REV.

DESCRIPTION

BY

DATE

BY

DATE

REV.

APPR.

REV.

DATE

P.O.I.

PREP.

CHK.

APP.

AUT.

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.:

EPC CONTRACTOR:

HIRGAN ENERGY

HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPC/EPD CONTRACTOR:

PETROIRAN DEVELOPMENT COMPANY

PEDCO

DRAWING TITLE:

P&ID DIAGRAM
UNIT CONTROL PANEL

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

N.T.S.C.

A3

BK-GCS-HY-120-PR-PI-0001

9A OF 10

V02

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APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

REVISION

DATE

SCALE

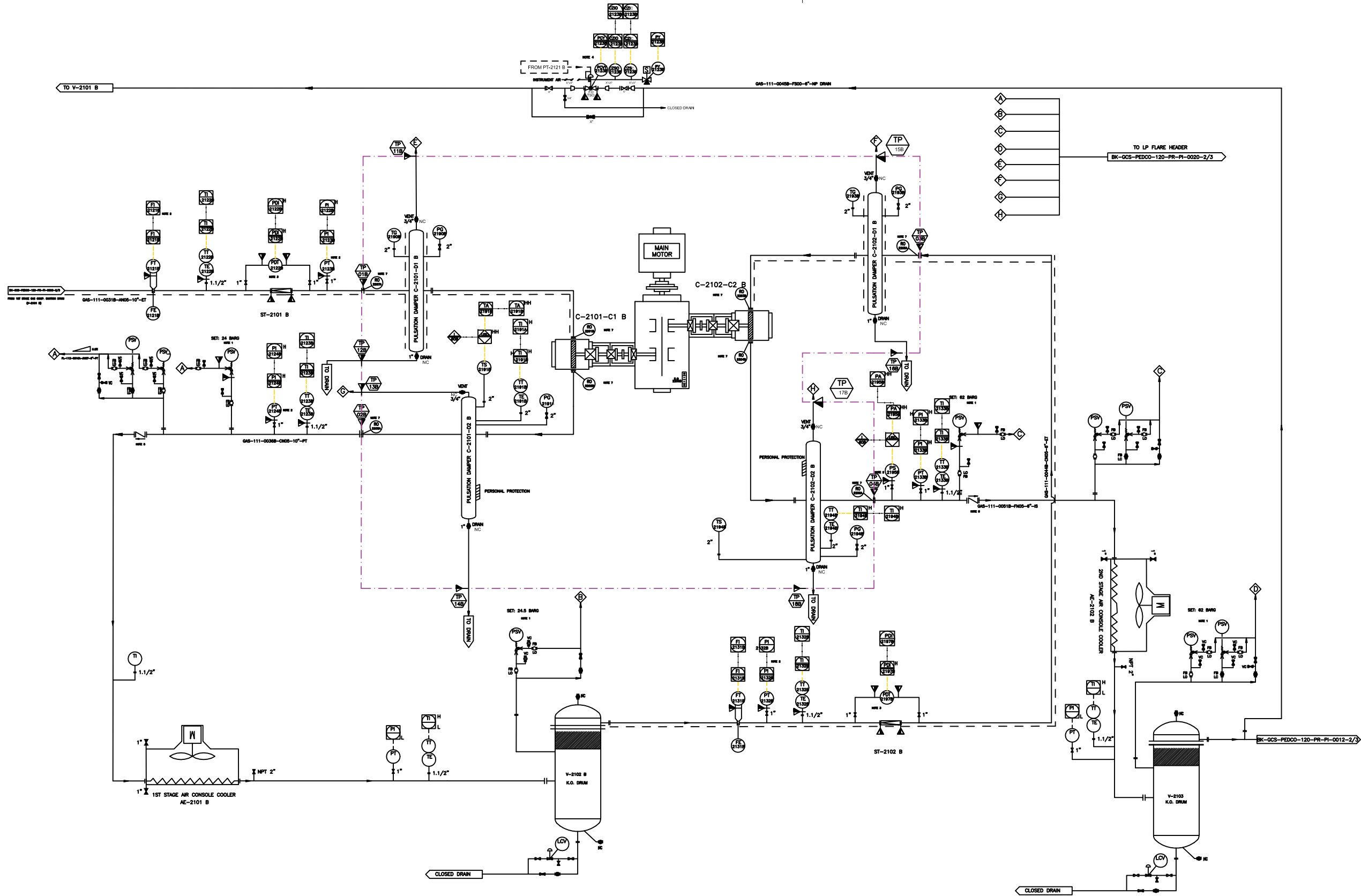
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PROJECT ENG.

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REFERENCE DRAWINGS		DWG. NUMBER
1. MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES		BK-GCS-PEDCO-120-ME-01-001_006
2. 1st STAGE GAS COMPRESSION SUCTION DRUM		BK-GCS-PEDCO-120-PR-PI-0006_006
3. 1st STAGE GAS COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0007_006
4. 1st STAGE GAS COMPRESSION AIR COOLERS		BK-GCS-PEDCO-120-PR-PI-0008_006
5. 2nd STAGE GAS COMPRESSION SUCTION DRUMS		BK-GCS-PEDCO-120-PR-PI-0009_006
6. 2nd STAGE GAS COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0010_006
7. 2nd STAGE GAS COMPRESSION AIR COOLERS		BK-GCS-PEDCO-120-PR-PI-0011_006
8. 2nd STAGE GAS COMPRESSION DISCHARGE DRUM		BK-GCS-PEDCO-120-PR-PI-0012_006

- Note :
- PSV WILL BE SIZED LATER. THE SUPPLY IS LOOSE.
 - INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 - THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 - SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PT-2121B WILL BE SENT FROM DCS TO UCP BY CLIENT.
 - NON SLAM TYPE CHECK VALVE.
 - ALL INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C
 - THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
 - THE STATUS OF XV-2121 B AND XV-2133 B ARE SENT TO UCP FOR COMPRESSOR START PERMISSION. COMPRESSOR START PERMISSION IS GIVEN WHILE THESE VALVES ARE OPEN. PSOV-2121B, XZIC-2121B, XZIO, 2121B WILL BE CONNECTED TO UCP. PSOV-2123B, XZIB-2123B, XZIO, 2123B WILL BE CONNECTED TO UCP.

Legend :

C-2101-C1 B	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4,8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935,5

C-2102-C2 B	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54,9
RATED CAPACITY (kg/h)	8935,5

C-2101-D1 B	
1ST STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	4,9
OPERATING TEMPERATURE (°C)	36,8
DESIGN PRESSURE (barg)	24,5

C-2101-D2 B	
1ST STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	18
OPERATING TEMPERATURE (°C)	129
DESIGN PRESSURE (barg)	24,5

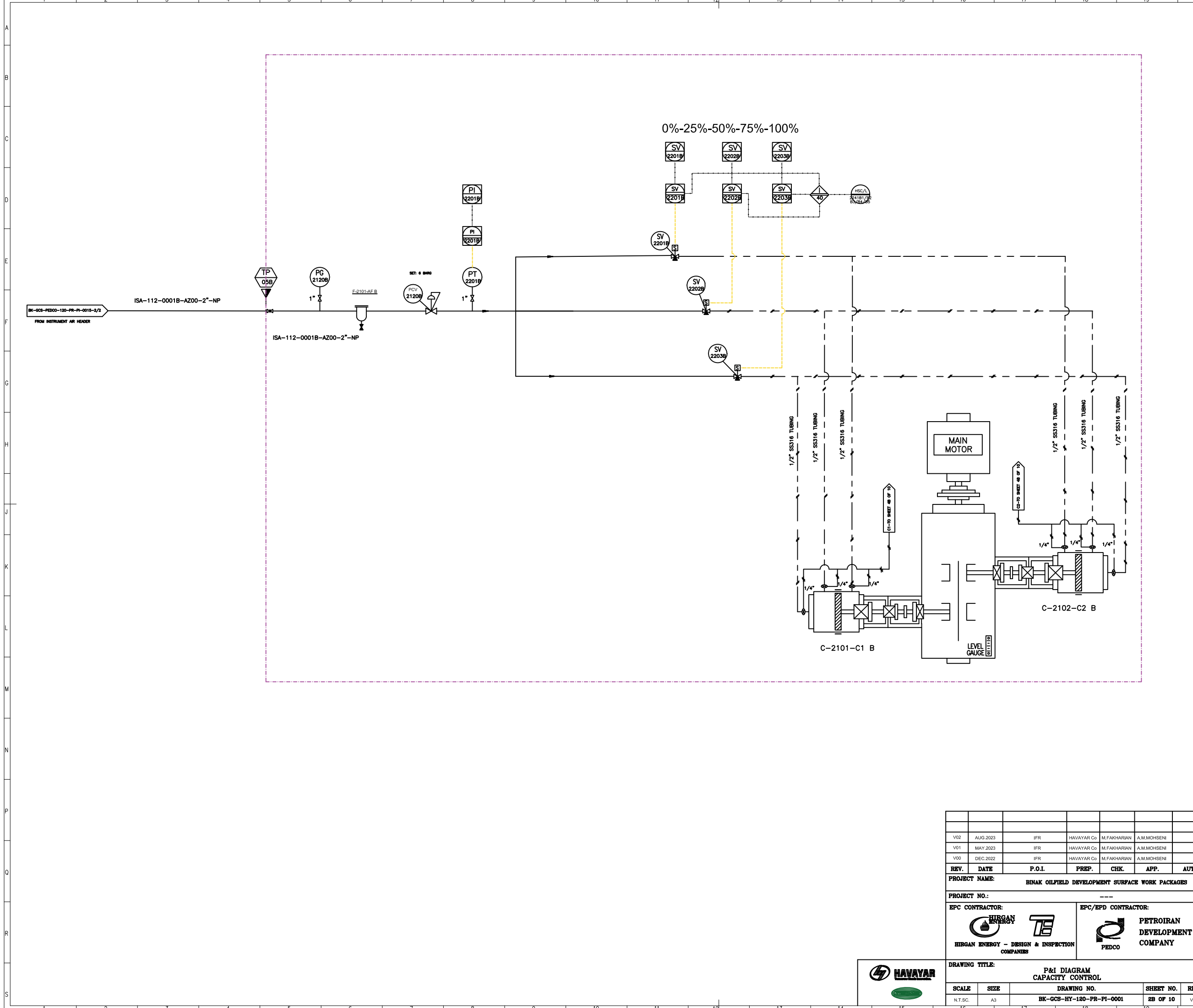
C-2102-D1 B	
2ND STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	17,1
OPERATING TEMPERATURE (°C)	59,9
DESIGN PRESSURE (barg)	62

C-2102-D2 B	
2ND STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	54,9
OPERATING TEMPERATURE (°C)	147
DESIGN PRESSURE (barg)	62

V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.:			---			
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:			P&I DIAGRAM PROCESS GAS			
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			1B OF 10	V02

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
اس و مہلک مجسرن ری مشور و وجہ سے مستحق قرار یافتہ بہ متکثر کی ایام وطن کے لئے درجہ سہولت پیش ہے۔					
					
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
DATE		SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET REVISION



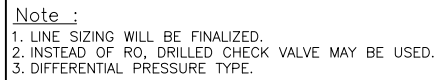


REFERENCE DRAWINGS	DWG. NUMBER

Note ;
1. LINE SIZING WILL BE FINALIZED.
2. THE UNLOADERS ARE AIR TO LOAD TYPE.

Legend :

REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	BY	DATE	BY	DATE
V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
PROJECT NO.:							---					
EPC CONTRACTOR:							EPC/EPD CONTRACTOR:					
HIRGAN ENERGY HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE:							P&I DIAGRAM CAPACITY CONTROL					
SCALE							DRAWING NO.					
N.T.S.C.							BK-GCS-HY-120-PR-PI-0001					
							SHEET NO.					
							2B OF 10					
							REV.					
							V02					
							BUDGET REF.					
							LOCATION					
							SIZE					
							CLASS					
							SERIAL NO.					
							SHEET					
							REVISION					



Legend :

<u>AE-2101-OC B</u>	
LUBE OIL COOLER	
TYPE	AIR COOLER
OPERATING PRESSURE (barg)	5
DESIGN PRESSURE (barg)	10
OPERATING TEMPERATURE (°C)	70/60

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

لے و ہیلک مضمون نی مشرق و حق س یقین قلعہ تم بہ تکرر شہد یرلم قطن نم تفتن ریخ بیون ج کش یم۔

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	BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES
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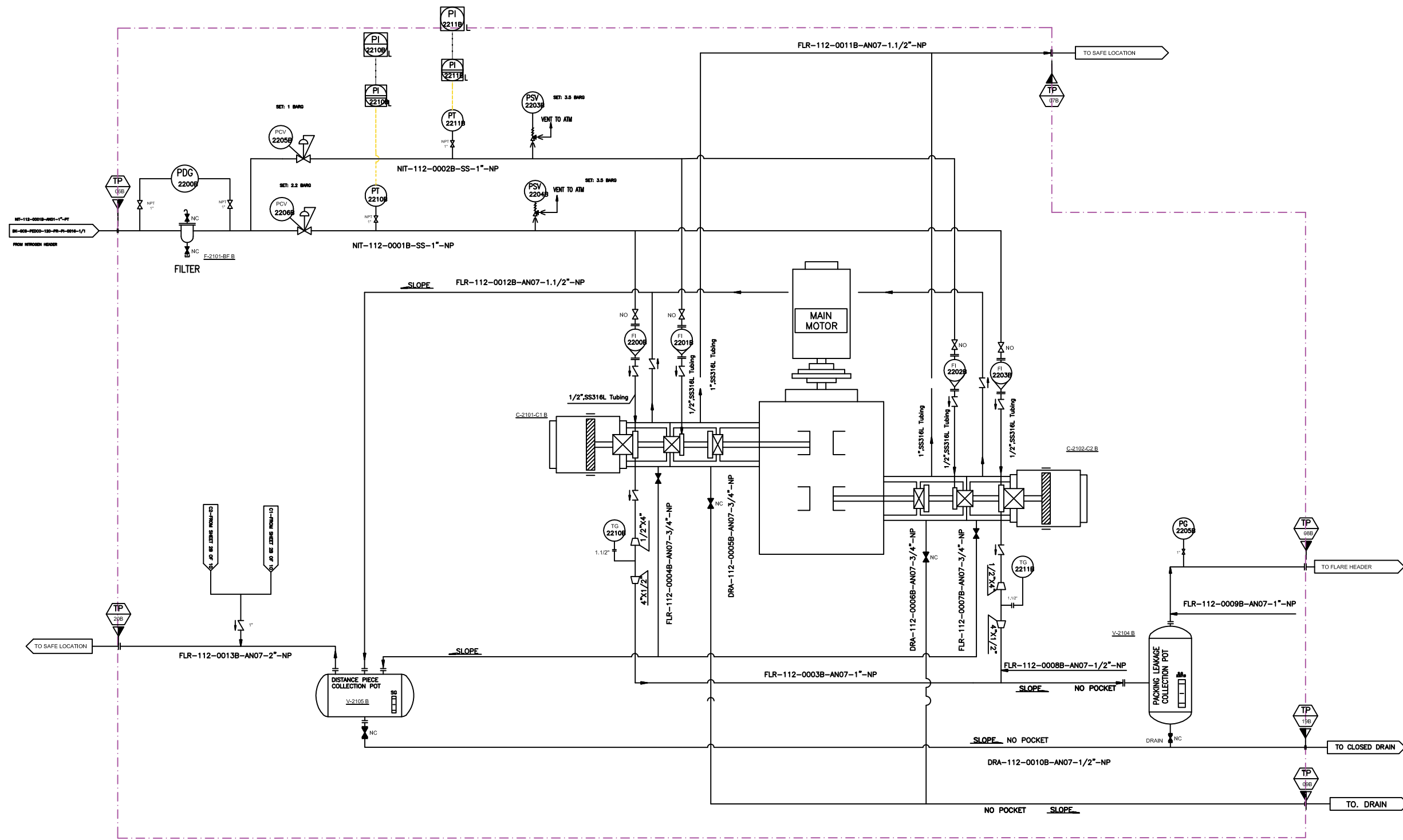
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

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V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI				
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI				
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI				
REV.	DATE	P.O.I.	PREF.	CHK.	APP.				AUT.
PROJECT NAME:						BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES			
PROJECT NO.:						---			
EPC CONTRACTOR:				EPC/EPD CONTRACTOR:					
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES				 PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE:									
P&i DIAGRAM LUBRICATION SYSTEM									
SCALE		SIZE		DRAWING NO.				SHEET NO.	
N.T.S.C		A3		BK-GCS-HY-120-PR-P1-0001				3B OF 10	
								V02	



V-2104 B	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

F-2101-BF B	
BUFFER GAS FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	7.5
MATERIAL	S.S

V-2105 B	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: -----						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM N2 PURGING SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-QCS-HY-120-PR-PI-0001			43 OF 110	V02
1/6	1/8	1/7	1/8	1/9		

Note :
1. LINE SIZING WILL BE FINALIZED.

Legend :

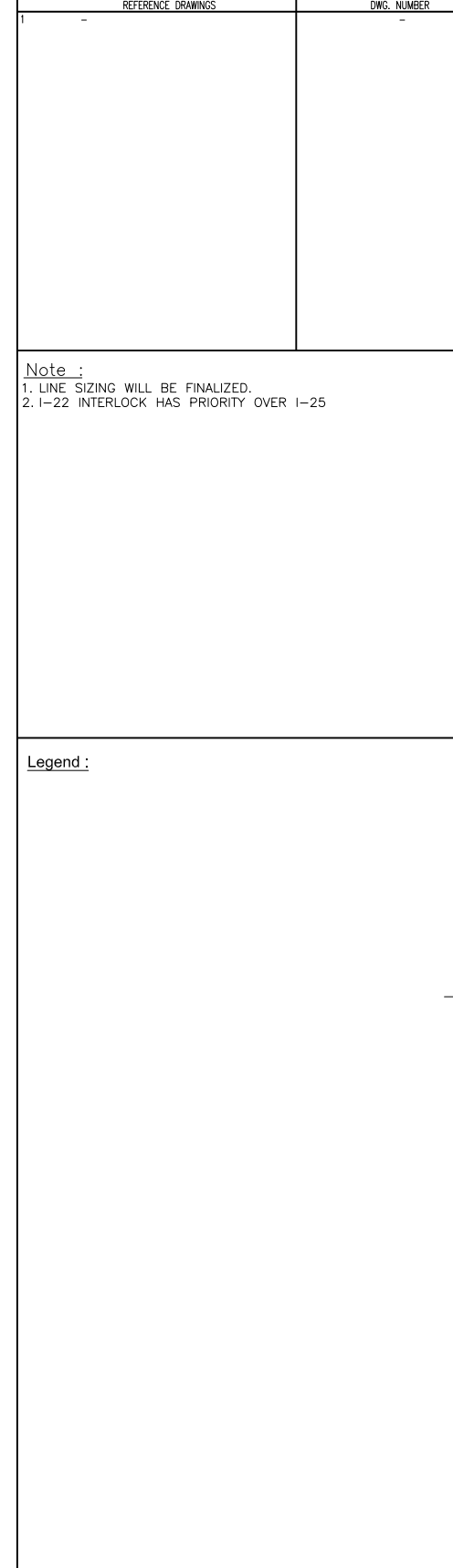
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

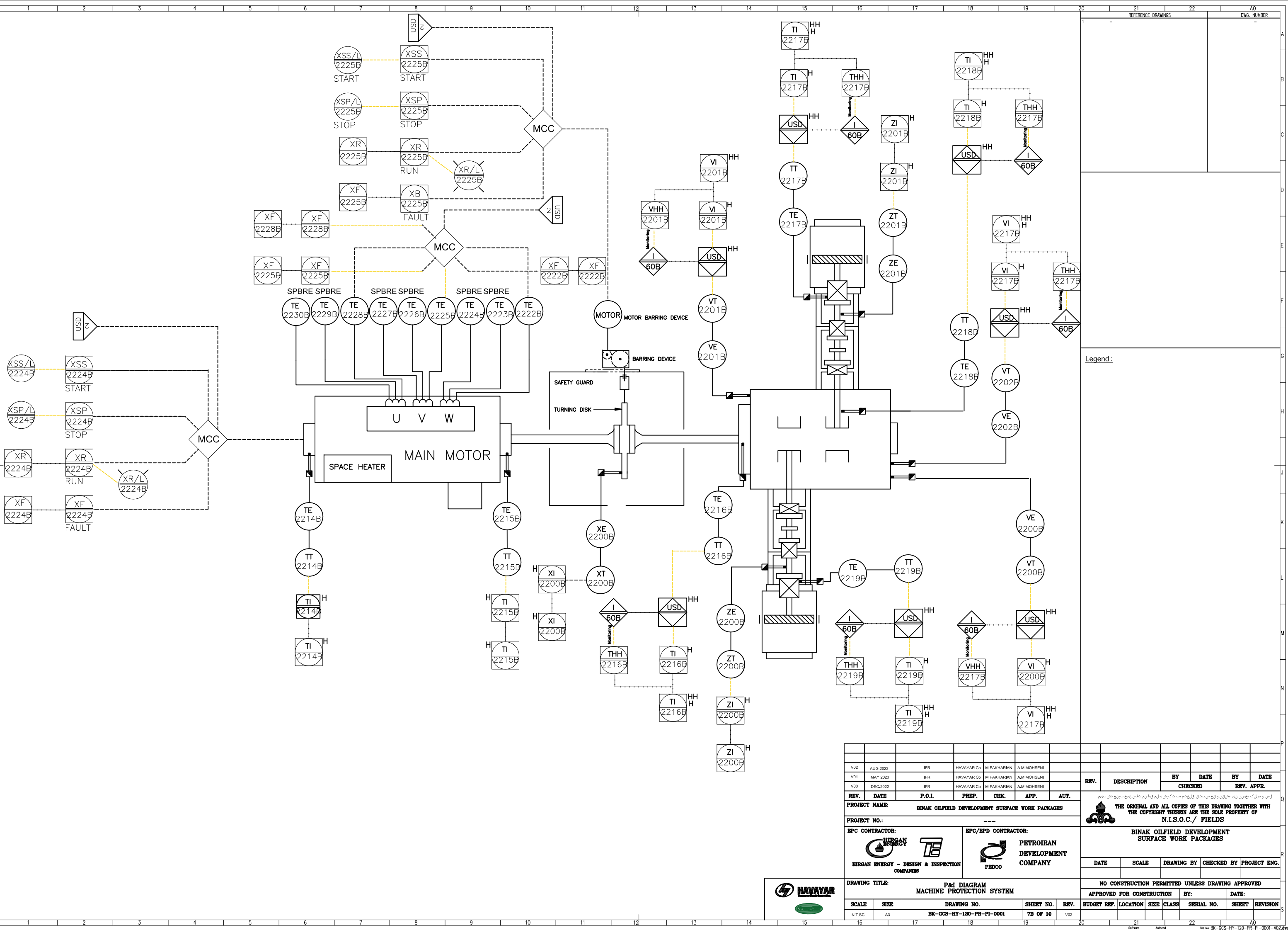
BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION



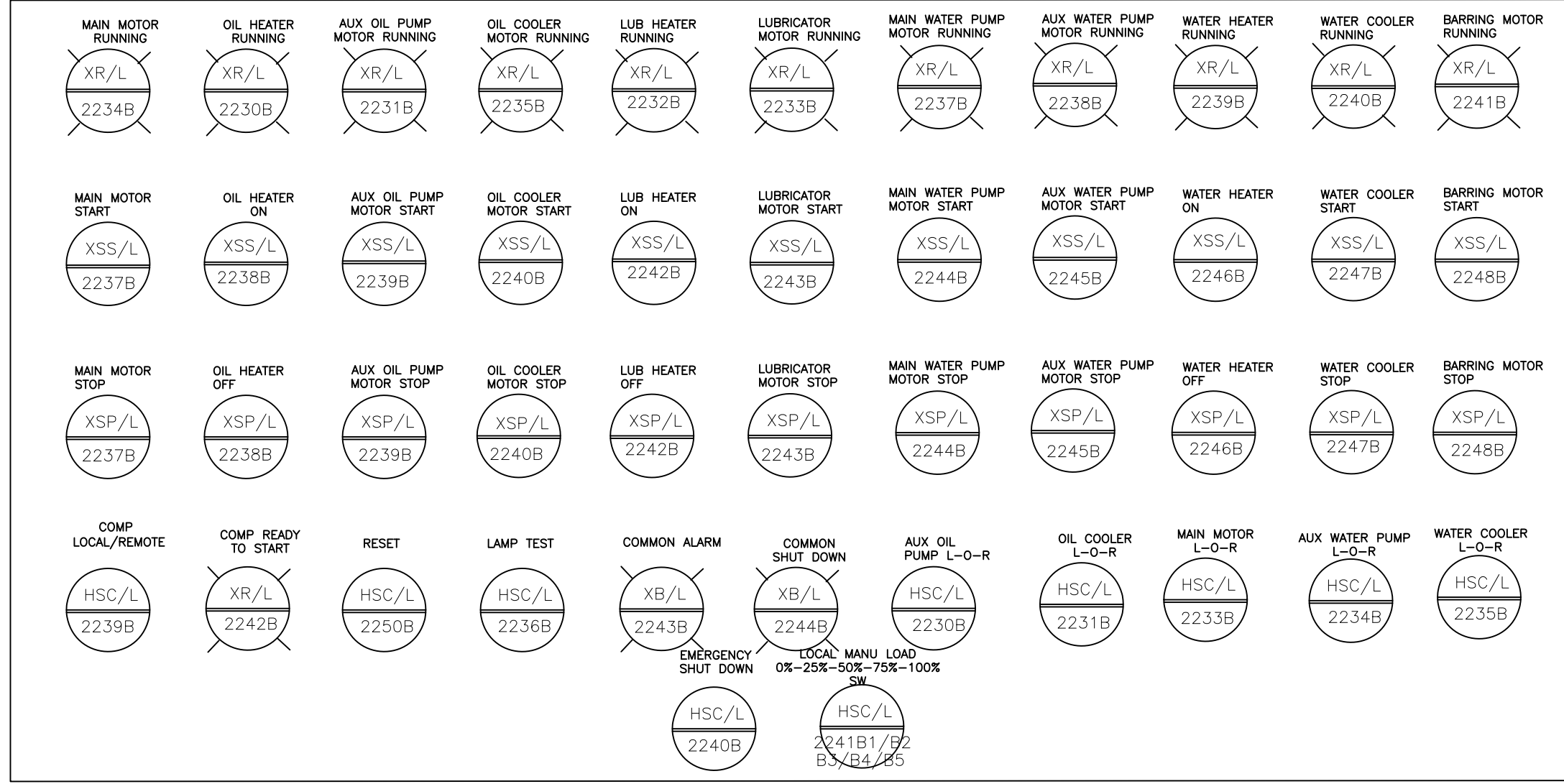
<u>P-2101-AX B</u>	
AUX. WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	WILL BE FINALIZED
OPERATING CAPACITY (TON/H)	17.6
RATED HEAD (M)	40



HAVAYA
Insurance Brokerage



LOCAL CONTROL STATION 2101 B

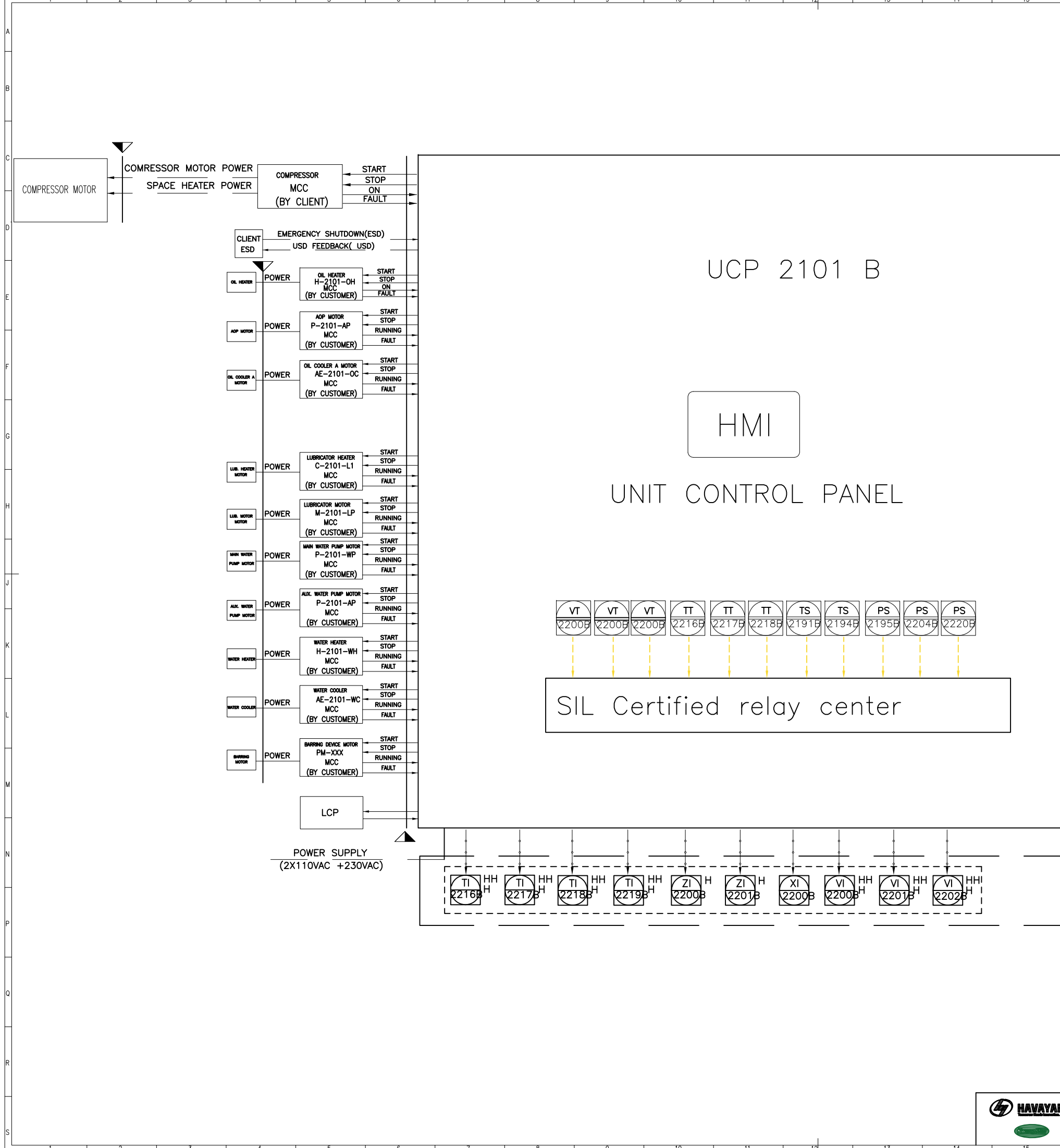


Note :

Signals of LCP will be connected to UCP.

Legend :

REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	BY	DATE	BY	DATE
V02	AUG. 2023	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI							
V01	MAY 2023	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI							
V00	DEC. 2022	IFR	HAVAYAR Co.	M.FAKHARIAN	A.M.MOHSENI							
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
PROJECT NO.: ---							BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							EPC/EPD CONTRACTOR: PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE: P&I DIAGRAM LOCAL CONTROL STATION							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
SCALE: N.T.S.C. A3							APPROVED FOR CONSTRUCTION BY: DATE:					
DRAWING NO. BK-GCS-HY-120-PR-PI-0001							BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION					
SHEET NO. 8B OF 10							V02					



REFERENCE DRAWINGS

DWG. NUMBER

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V01	MAY 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.:

EPC CONTRACTOR:

HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPC/EPD CONTRACTOR:

PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE:

P&ID DIAGRAM
UNIT CONTROL PANEL

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

N.T.S.C.

A3

BK-GCS-HY-120-PR-PI-0001

9B OF 10

V02

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

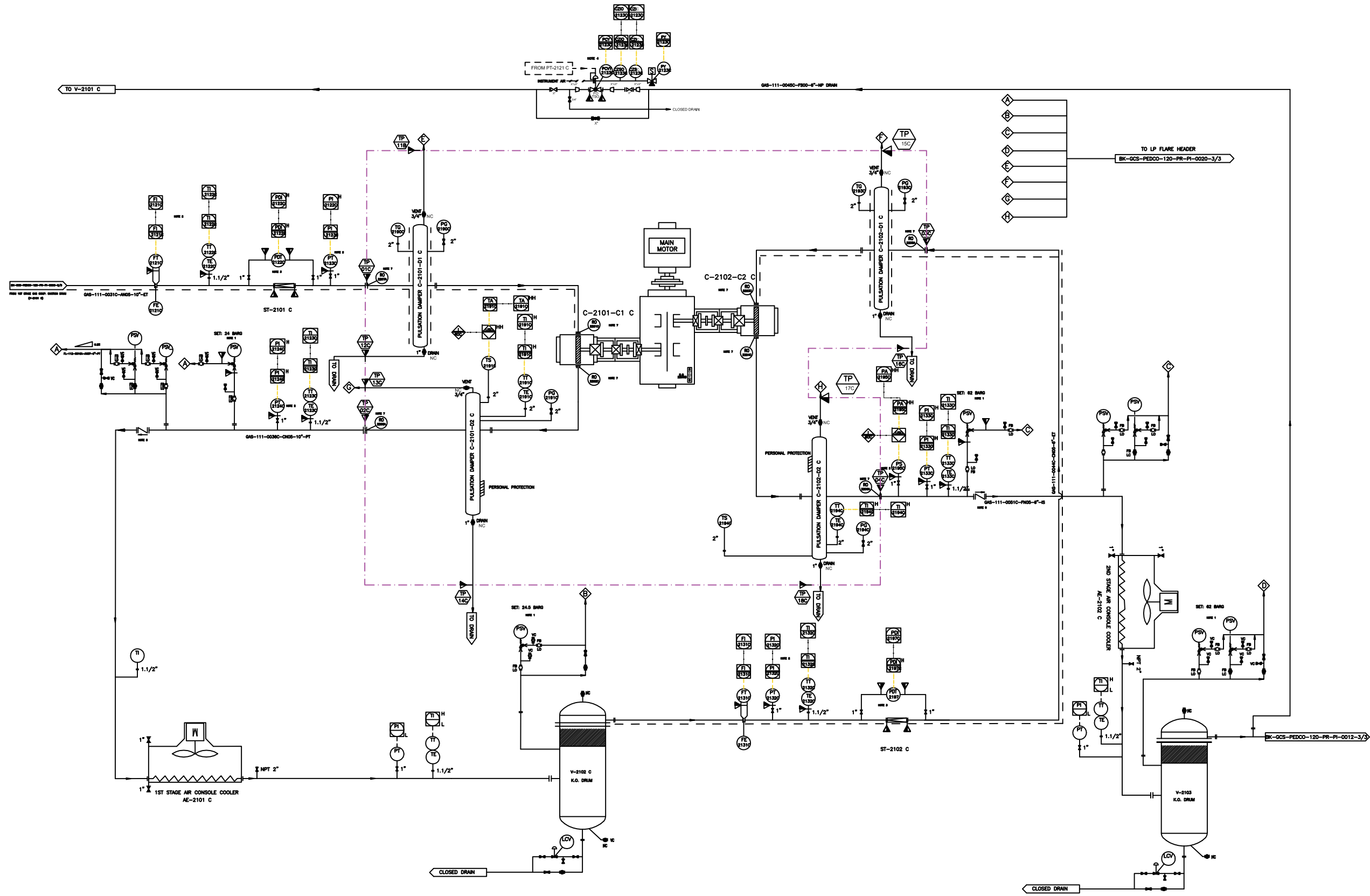
REVISION

21

22

A0

DCS



REFERENCE DRAWINGS		DWG. NUMBER
1. MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES		BK-GCS-PEDCO-120-ME-01-0031_D06
2. 1st STAGE GAS COMPRESSION SUCTION DRUMS		BK-GCS-PEDCO-120-PR-P1-0006_D06
3. 1st STAGE GAS COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-P1-0007_D06
4. 1st STAGE GAS COMPRESSION AIR COOLERS		BK-GCS-PEDCO-120-PR-P1-0008_D06
5. 2nd STAGE GAS COMPRESSION SUCTION DRUMS		BK-GCS-PEDCO-120-PR-P1-0009_D06
6. 2nd STAGE GAS COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-P1-0010_D06
7. 2nd STAGE GAS COMPRESSION AIR COOLERS		BK-GCS-PEDCO-120-PR-P1-0011_D06
8. 2nd STAGE GAS COMPRESSION DISCHARGE DRUM		BK-GCS-PEDCO-120-PR-P1-0012_D06

- Note :
1. PSV WILL BE SIZED LATER. THE SUPPLY IS LOOSE.
 2. INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 3. THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 4. SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PT-2121C WILL BE SENT FROM DCS TO UCP BY CLIENT.
 5. NON SLAM TYPE CHECK VALVE.
 6. ALL INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C
 7. THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
 8. THE STATUS OF XV-2121 B AND XV-2133 B ARE SENT TO UCP FOR COMPRESSOR START PERMISSION. COMPRESSOR START PERMISSION IS GIVEN WHILE THESE VALVES ARE OPEN. PSOV-2121C, XZIC-2121C, XZIO, 2121C WILL BE CONNECTED TO UCP.
PSOV-2123C, XZIC-2123CXZIO, 2123C WILL BE CONNECTED TO UCP.

Legend :

C-2101-C1 C	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4,8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935,5

C-2102-C2 C	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54,9
RATED CAPACITY (kg/h)	8935,5

C-2101-D1 C	
1ST STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	4,9
OPERATING TEMPERATURE (°C)	36,8
DESIGN PRESSURE (barg)	24,5

C-2101-D2 C	
1ST STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	18
OPERATING TEMPERATURE (°C)	129
DESIGN PRESSURE (barg)	24,5

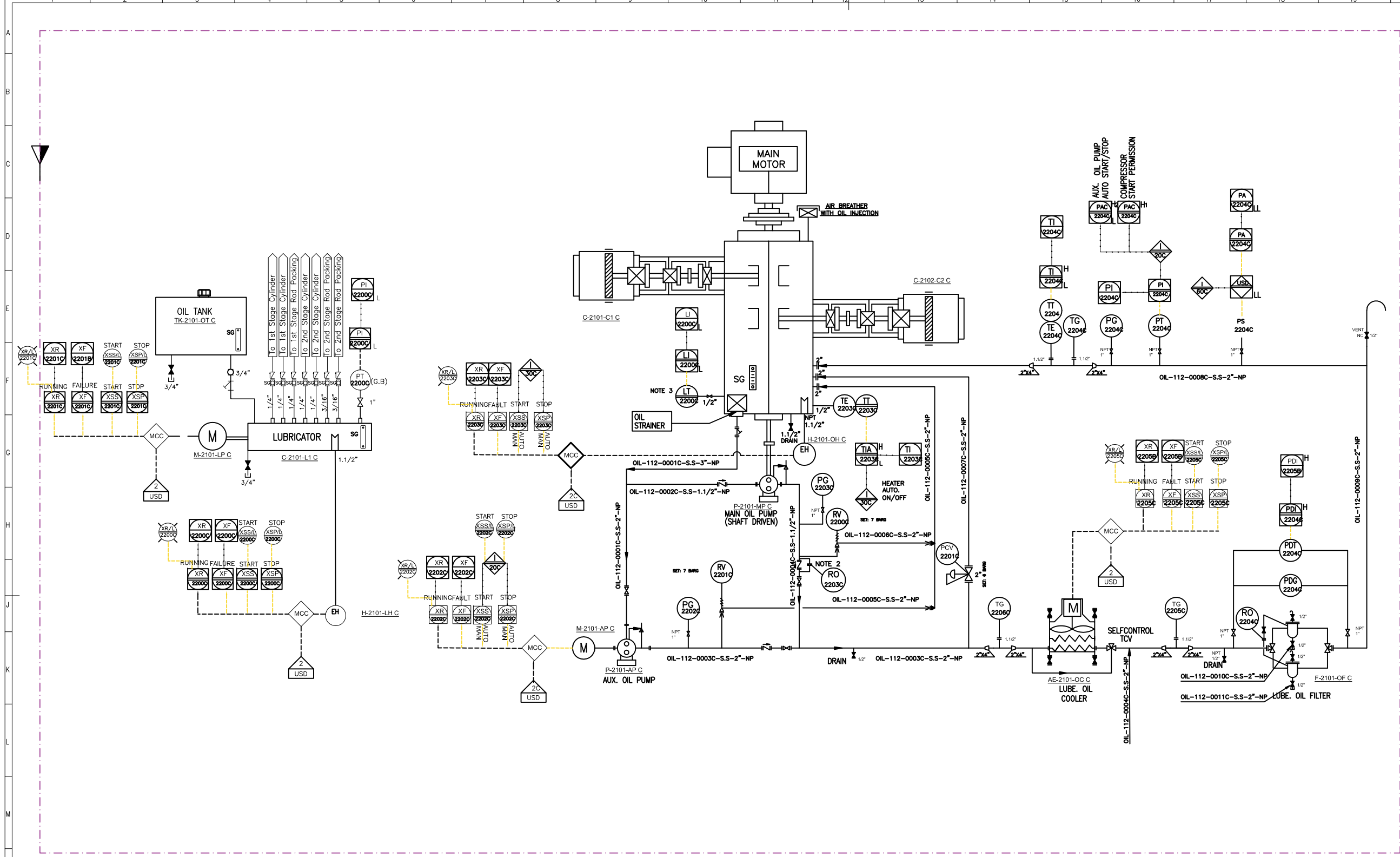
C-2102-D1 C	
2ND STAGE SUCTION SNUBBER	
OPERATING PRESSURE (barg)	17,1
OPERATING TEMPERATURE (°C)	59,9
DESIGN PRESSURE (barg)	62

C-2102-D2 C	
2ND STAGE DISCHARGE SNUBBER	
OPERATING PRESSURE (barg)	54,9
OPERATING TEMPERATURE (°C)	147
DESIGN PRESSURE (barg)	62

V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM PROCESS GAS						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			1C OF 10	V01
16.	17	18	19			

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION		BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
					REVISION



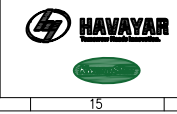


P-2101-MP C	
MAIN OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER	SHAFT DRIVEN
RATED CAPACITY (L/min)	131

P-2101-AP C	
AUX. OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER (kW)	WILL BE FINALIZED
RATED CAPACITY (L/min)	131

F-2101-OF C	
LUBE OIL FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
MATERIAL	S.S
MESH SIZE (MICRON)	10

AE-2101-OC C	
LUBE OIL COOLER	
TYPE	AIR COOLER
OPERATING PRESSURE (barg)	5
DESIGN PRESSURE (barg)	10
OPERATING TEMPERATURE (°C)	70/60



V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI				
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI				
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI				
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.			
PROJECT NAME: BINAQ OILFIELD DEVELOPMENT SURFACE WORK PACKAGES									
PROJECT NO.: ---									
EPC CONTRACTOR:				EPC/EPD CONTRACTOR:					
									
HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES				PEDCO					
DRAWING TITLE: P&I DIAGRAM LUBRICATION SYSTEM									
SCALE	SIZE	DRAWING NO.				SHEET NO.	REV.		
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001				3C OF 10	V02		
16		17		18		19			

Note :
1. LINE SIZING WILL BE FINALIZED.
2. INSTEAD OF RO, DRILLED CHECK VALVE MAY BE USED.
3. DIFFERENTIAL PRESSURE TYPE.

Legend :

و ديوارك چيخون ري شيرين و حج سر سقش قارلر عتمه و ب تگدرش قارم قارم قارم ريخ سورن خاش بديم

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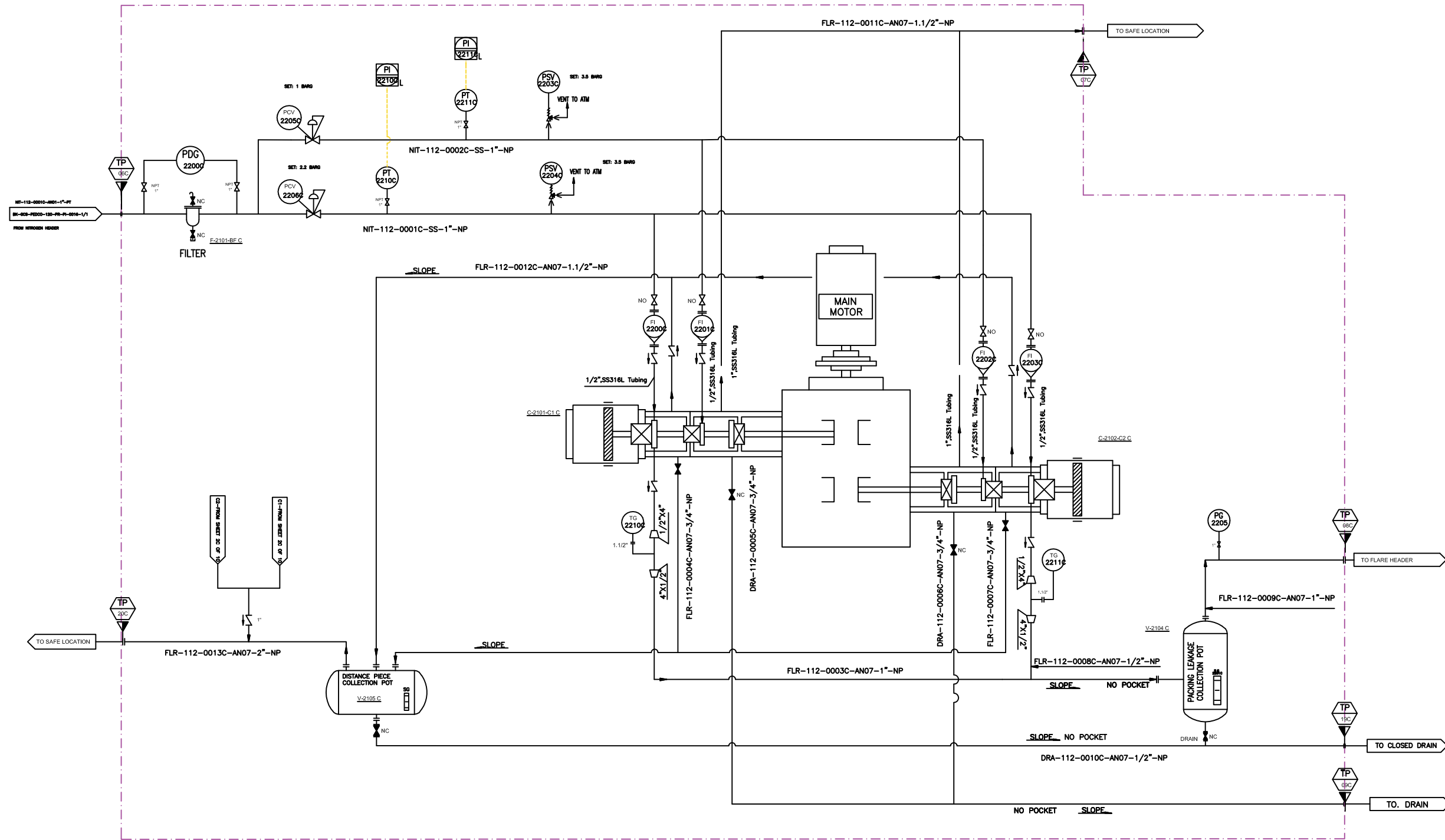
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION				BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REV.

0 21 22 A0



V-2104 C	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

F-2101-BF C	
BUFFER GAS FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	7.5
MATERIAL	S.S

V-2105 C	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	1.5
MATERIAL	C.S

V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM N2 PURGING SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-QCS-HY-120-PR-PI-0001			4C OF 100	V02
1/6	1	17	18	19		

اصل و کاپی از این نقشه و کلیه کپی های آن را در اختیار شرکت نفت و گاز پارس و حق کپی برداری و توزیع مجدد آن محفوظ است.

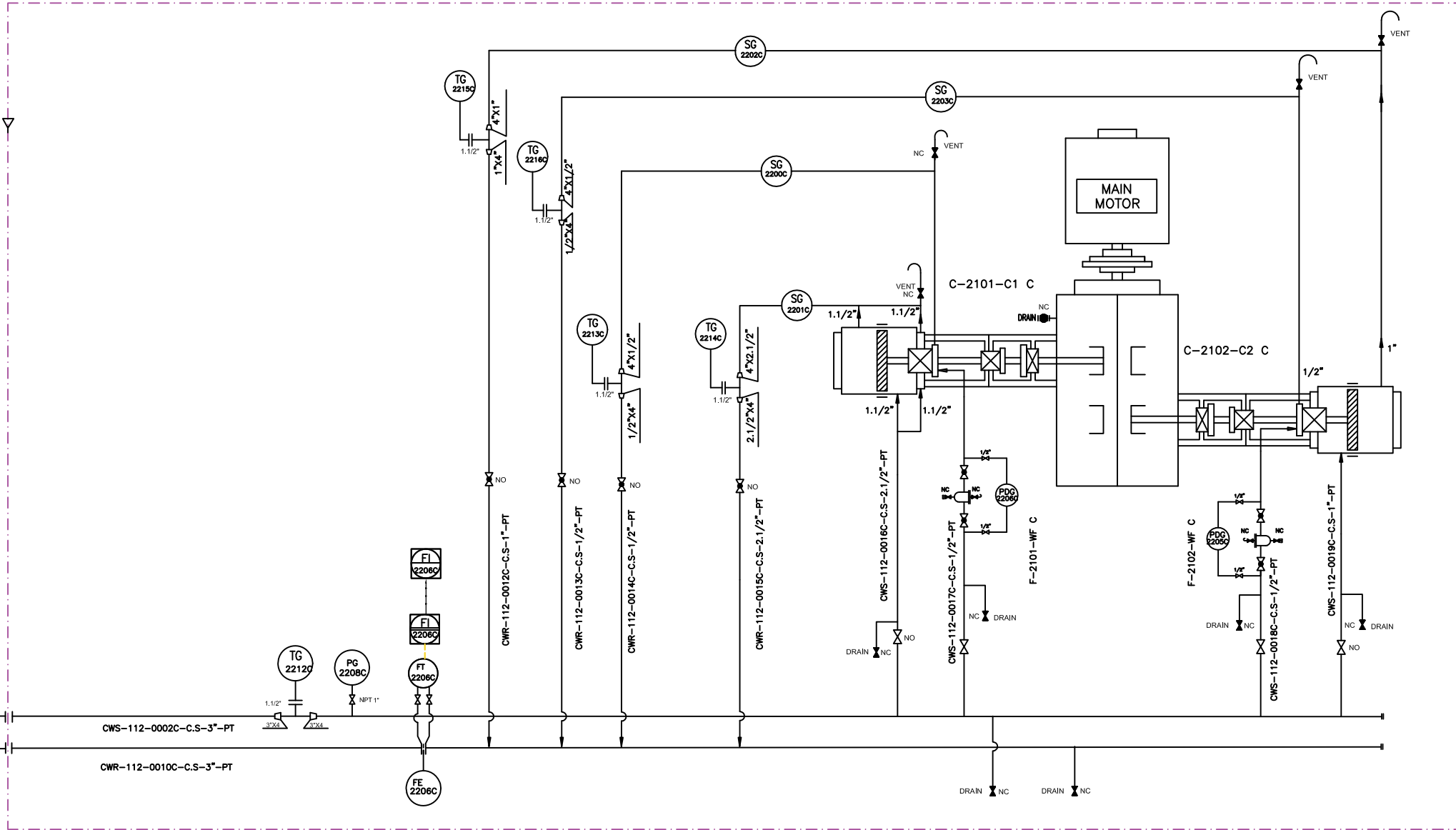
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	BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES				
	DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET REVISION

Note :
1. LINE SIZING WILL BE FINALIZED.

Legend :

اصل و کاپی از این نقشه و کلیه کپی های آن را در اختیار شرکت نفت و گاز پارس و حق چاپ و توزیع این نقشه محفوظ است.

	THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS				
	BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES				
	DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	REVISION



REFERENCE DRAWINGS		DWG. NUMBER
1. P&ID - 1ST STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0007_002
2. P&ID - 2ND STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0010_002

Note :
1. LINE SIZING WILL BE FINALIZED.

Legend :

V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI		
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							
PROJECT NO.: ---							
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:				
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES					 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM COOLING WATER SYSTEM							
SCALE		SIZE		DRAWING NO.		SHEET NO. REV.	
N.T.S.C.		A3		BK-GCS-HY-120-PR-PI-0001		6C OF 10 V02	
16		17		18		19	

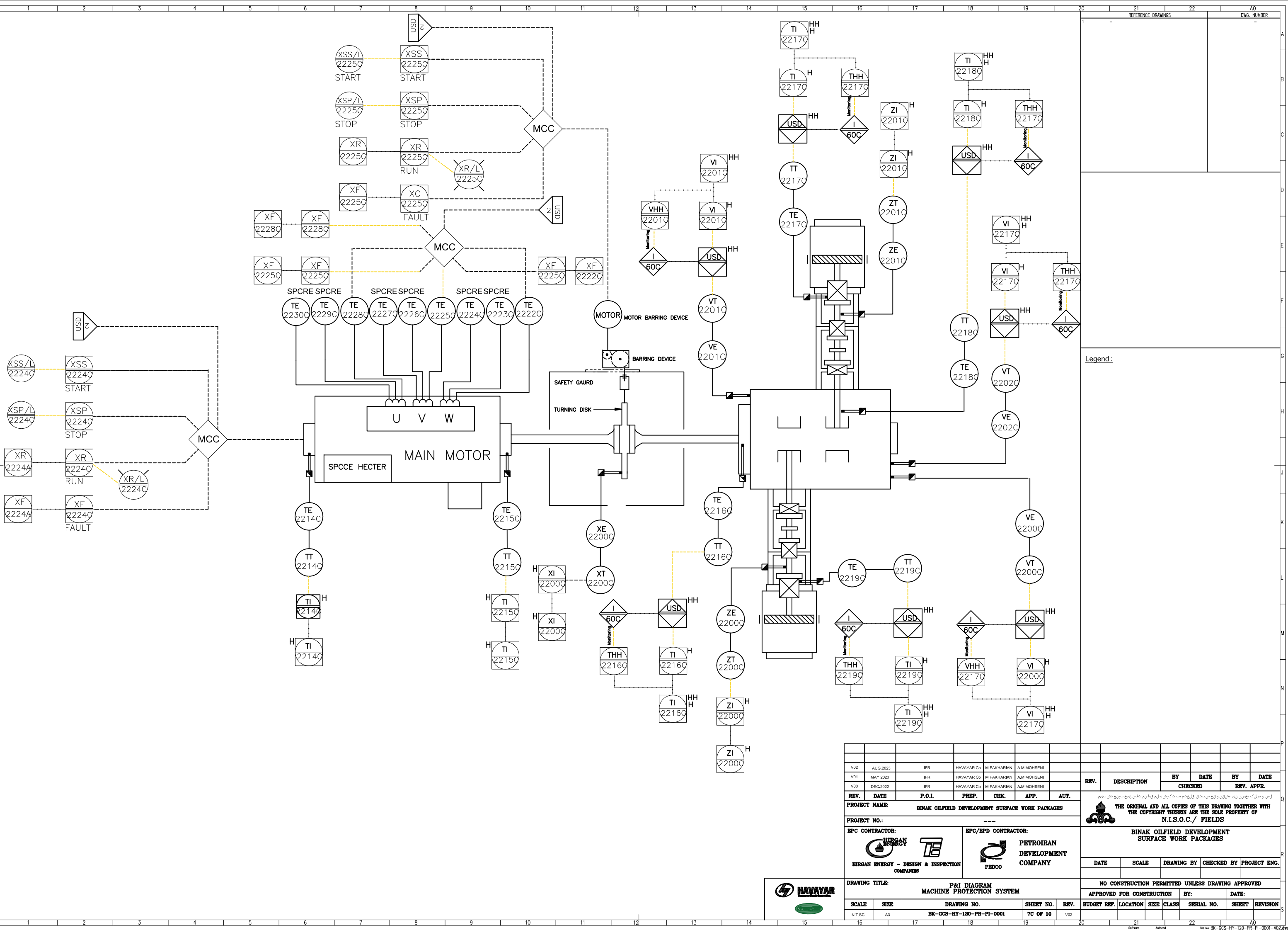
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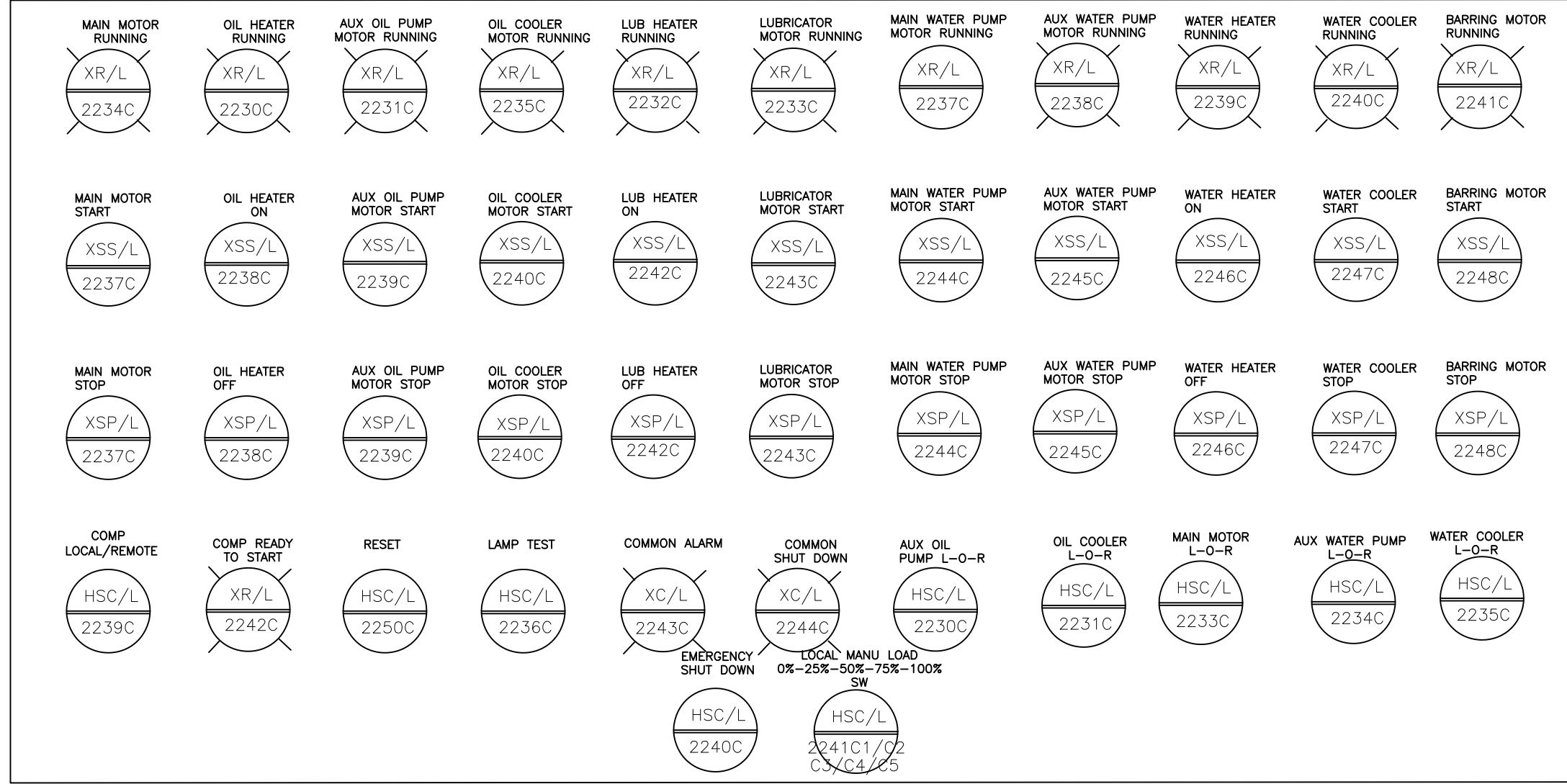
APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION





LOCAL CONTROL STATION 2101 C

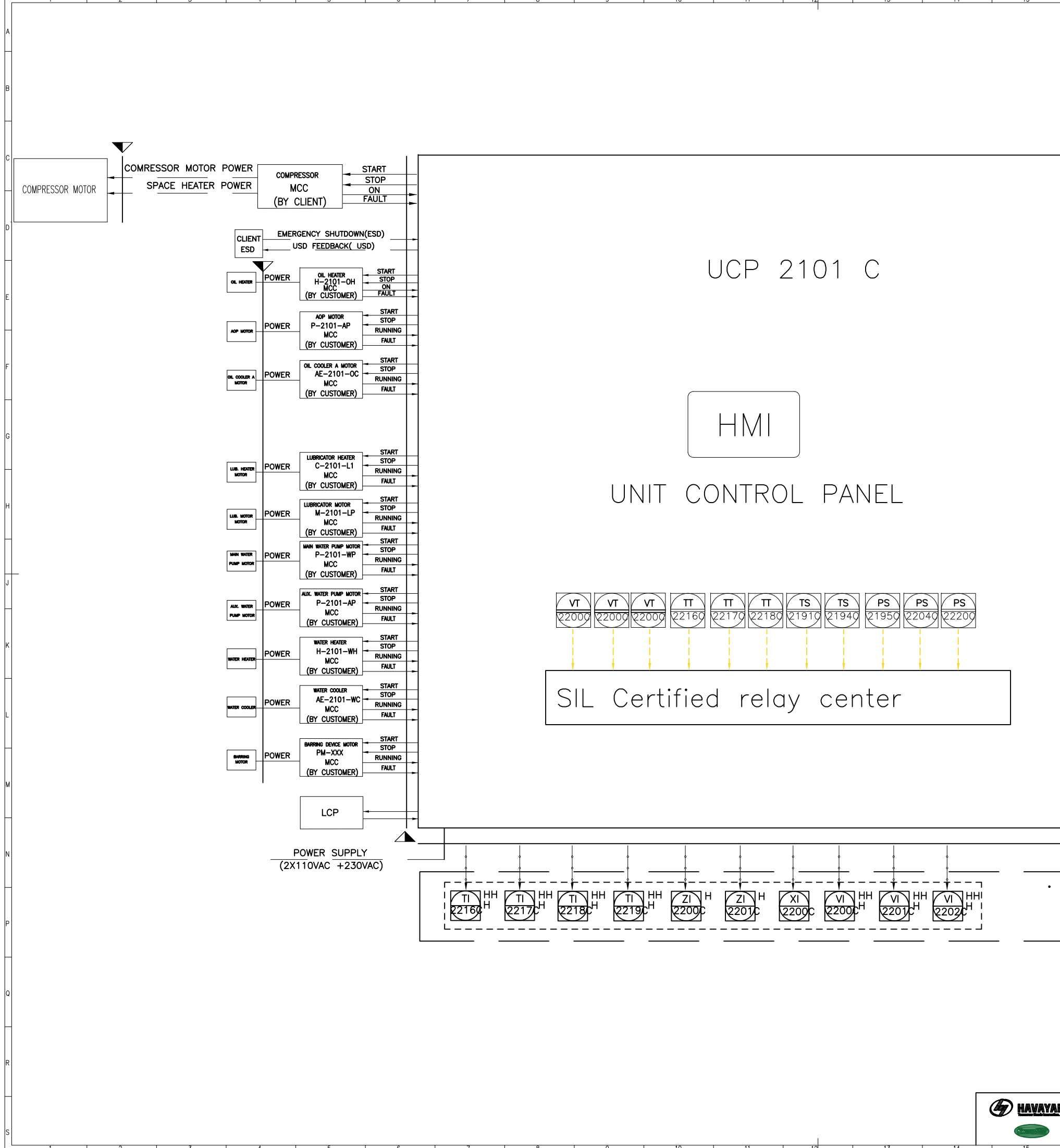


Note :

Signals of LCP will be connected to UCP.

Legend :

REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	BY	DATE	BY	DATE
V02	AUG. 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
V01	MAY 2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
V00	DEC. 2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI							
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
PROJECT NO.: ---							BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							EPC/EPD CONTRACTOR: PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE: P&I DIAGRAM LOCAL CONTROL STATION							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
SCALE: N.T.S.C. A3							APPROVED FOR CONSTRUCTION BY: DATE:					
DRAWING NO. BK-GCS-HY-120-PR-PI-0001							BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION					
SHEET NO. 8C OF 10							V02					



										REFERENCE DRAWINGS										DWG. NUMBER									

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PRESSURE GAUGE		SOLENOID VALVE		GATE VALVE		SOLENOID VALVE		LOCAL MOUNTED		ELECTRIC SIGNAL
	PRESS. IND. TRANSMITTER		TEMP. TRANSMITTER		GLOBE VALVE		UNLOADER		MAIN CONTROL PANEL MOUNTED		DATA LINK SIGNAL
	PRESS. DIFF. IND. TRANSMITTER		TEMP. INDICATOR		NEEDLE VALVE		PROCESS / INSTRUMENT LINE		GAUGE BOARD MOUNTED		FILTER
	TEMP. GAUGE		SIGHT GLASS		CHECK VALVE		OTHER UTILITY LINE (C/W)		DCS		STRAINER
	TEMP. ELEMENT		RELIEF VALVE		Y-STRAINER		CAPILLARIES TUBE		UCP INDICATOR		ESD INTERLOCK
	PRESSURE INDICATOR		FLOW GAUGE		SELF PRESS. REDUCING REGULATOR		LUB. OIL LINE		TRIP RELAY CENTER IN UCP		PLANT ESD
	PRESSURE SAFETY VALVE		BALL VALVE		PRESSURE SAFETY VALVE		INSTRUMENT AIR LINE		FUNCTION IMPLEMENTED IN UCP		REGULATOR WITH FILTER
	TEMPERATURE CONTROL VALVE		ELECTRICAL HEATER		HEAT TRACE		RESTRICTION ORIFICE		INSULATION		PERSONNEL PROTECTION
	TIE IN POINT		LIMITS OF HAVAYAR SUPPLY		BATTERY LIMITS		GAUGE BOARD		PACKAGE TRIP		VENT

Note :

Legend :

EQUIPMENT NUMBERING

AA	BCDD	E
AA: EQUIPMENT CODE	BCDD: EQUIPMENT	CODE
AIRCOOLER		AE
COMPRESSOR		C
CONTROL PANEL		LC(LCP)
DIESEL ENGINE		DL
EXCHANGER SHELL-AND TUBE, DOUBLE PIPE, PLATE, COIL, AIR COOLED, REBOILER, BOX COOLER, CASCADE COOLER, SURFACE CONDENSER, BAROMETRIC CONDENSER, WASTE-HEAT BOILER		E
FAN		FA
FILTER		F
FLARE STACK		FS(FST)
GAS TURBINE		GT
HEATER, FIRED, FURNACE		H
HOIST		HI
HOSE HOUSE		HH
HOSE REEL		HR
IGNITION PACKAGE		IG
INDOOR HOSE REELS		IN(HR)
MOTOR ELECTRIC		M
OUTDOOR HOSE REELS		OH(OHR)
PACKAGE UNIT		PK
PIG LAUNCHER		PL
PULSATION DAMPENER		PD
PUMP		P
SCALE, WEIGHING, MEASURING		SC
SILENCER, MUFFLER		SI
STACK, CHIMNEY		SE
STRAINER		ST(STR)
SUMP		SU
TANK, SILO, HOPPER		TK
TOWER, COLUMN		T
UNLOADER		UL
VESSEL (SCRUBBER, ACCUMULATOR, K.O. DRUM, SPHERE, BULLET, SEPARATOR)		V

B: PLANT NO ABBREVIATION
GCS PLANT : 2

C: UNIT NO
1 PROCESS
2 UTILITY
3 FIRE WATER

DD: SEQUENTIAL NO (01 TO 99) IF MORE REQUIRED IT CAN BE IDENTIFIED WITH TWO DIGIT SUCH THAT THE FIRST DIGIT COMES FROM THE LAST DIGIT UNIT KEY.

E: ALPHABETICAL LETTER (FOR MULTIPLE IDENTICAL EQ. AND SPARE)

LINE NUMBERING

AAA	XXX	YYYY	ZZZZ	D"	CC(*)
-----	-----	------	------	----	-------

(1) - (2) - (3) - (4) - (5) - (6)

(1) FLUID IDENTIFICATION CODE

CODE	DESCRIPTION
A. AIR SYSTEM	
ISA	INSTRUMENT AIR
PLA	PLANT AIR

B. BLOWDOWN & PUMP OUT SYSTEM/EFFLUENT DISPOSAL

BDN	BLOW DOWN
CBD	CONTINUOUS BLOW DOWN
IBD	INTERMITTENT BLOW DOWN

C. DRAIN (SEWER) SYSTEM

COB	CONCRETE DRAIN BOX
COH	CLOSED DRAIN HEADER
CSW	CHEMICAL SEWER
CY	CHEMICAL DRAIN PIT
DRP	DRAIN PIT
NSW	NON OILY WATER SEWER
OPD	OPEN DRAIN
OSW	OILY WATER SEWER
SSW	SANITARY WATER SEWER
Y	DRAIN FURNEL (GENERAL)

D. FLARE SYSTEM AND VENT

ATM	ATMOSPHERE
FL	FLARE (NORMAL)
HFL	HIGH PRESSURE FLARE
LFL	LOW PRESSURE FLARE

E. FULES

FLG	FUEL GAS / PURGE GAS
FLO	FUEL OIL
NG	NATURAL GAS
DO	DIESEL OIL

F. SPECIAL GAS SYSTEM

AIR	AIR (DRYING SERVICE)
FUG	FLUE GAS
NIT	NITROGEN

G. SPECIAL CHEMICAL AND SOLVENT SYSTEM

CHM	CHEMICALS
MEL	METHANOL

I. WATER SYSTEM

FWA	FIRE WATER
OWA	OILY WATER
PRW	PROCESS WATER
PTW	POTABLE WATER
PWA	PLANT WATER
RWA	RAW WATER

LINE NUMBERING

K. PROCESS SERVICE

GAS	GAS
GSO	GAS OIL
HOB	HYDROCARBON
PRO	PROCESS FLUID
REG	RECYCLE GAS
SLP	SLOP
ORD	CRUDE OIL
TEO	TRIETHYLENE GLYCOL

(2) UNIT SERIAL NUMBER

PROCESS NUMBER :	111
UTILITY NUMBER :	112
FIRE WATER :	113

(3) PIPING SERIAL NUMBER

(4) PIPING CLASS CODE

PIPING CLASS ACCORDING IPS-E-P1-221. EACH PIPING MATERIAL CLASS IS IDENTIFIED BY A FOUR-DIGIT ALPHANUMERIC CODE. THE FIRST ALPHA CHARACTER IDENTIFIES THE PRESSURE RATING AS FOLLOWS:

A	RATING CLASS 150
C	RATING CLASS 300
F	RATING CLASS 600
G	RATING CLASS 900
H	RATING CLASS 1500
W	RATING CLASS 3000
X	RATING CLASS 5000

THE SECOND ALPHA CHARACTER INDICATES THE MATERIAL GROUP AS FOLLOWS:

N	CARBON
S	STAINLESS STEEL
X	NON METALPIPE
Z	GALVANIZED CARBON STEEL

THE TWO DIGIT FIGURES INDICATE DIFFERING SERVICE CONDITIONS (e.g. PROCESS FLUID BEING HANDLED OR SERVICE TEMPERATURE LIMITS, OR CORROSION RATE).

3 RD DIGIT		FOR METAL PIPE			4 TH DIGIT FOR NON-METAL PIPE	
	DESIGN STANDARD	FIG.	C.A.	TYPE OF SYSTEM OR SERVICE	FIG.	MATERIAL TYPE
0	ASME B 31.3 (FOR BRASS OF FLUID)	0	0 mm	NO	1	GRE
		1	1 mm	NO		
1	ASME B 31.4 (FOR LIQUID PIPELINES)	2	1 mm	YES	2	PE
		4	3 mm	NO		
2	ASME B 31.8 (FOR GAS PIPELINES)	5	3 mm	YES	3	RTP(REFINFORCED THERMOPLASTIC PIPE)
		6	6 mm	NO		
		7	6 mm	YES		

(5) NOMINAL PIPE SIZE

(6) CODE OF INSULATION OR HEATH TRACING:

CODE	DESCRIPTION
ET (*)	ELECTRICALLY TRACED & INSULATED
ETT (*)	ELECTRICALLY TRACED WITH HEAT TRANSFER CEMENT
IC	INSULATION COLD
HI	INSULATION HOT
IS	INSULATION FOR PERSONNEL PROTECTION
TB	TRACE BODY AND INSULATE
TBB	TRACE BODY AND BONNET AND INSULATE
PT	PAINTING
NP	NO PAINTING, NO INSULATION
UNW	UNDERGROUND WRAPPING

* H : HEAT CONSERVATION, W : WINTERIZATION

INSTRUMENT NUMBERING

A	a	b	c	d
---	---	---	---	---

A : INSTRUMENT TYPE ASPER SECTION 5.3

(a) : PLANT NO. ASPER SECTION 1.

(b) : UNIT NO. ASPER SECTION 1.

(c) : SEQUENCE NO.

(d) : OPTIONAL SUFFIX (ONE LETTER)

EQUIPMENT



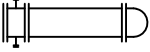
ROTARY PUMP WITH INTERNAL RELIEF VALVE



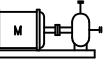
AIR COOLER



SEPARATOR



SHELL AND TUBE EXCHANGER



CENTRIFUGAL PUMP

V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM SYMBOL AND LEGEND						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001			10 OF 10	V02
16		17	18	19		

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION