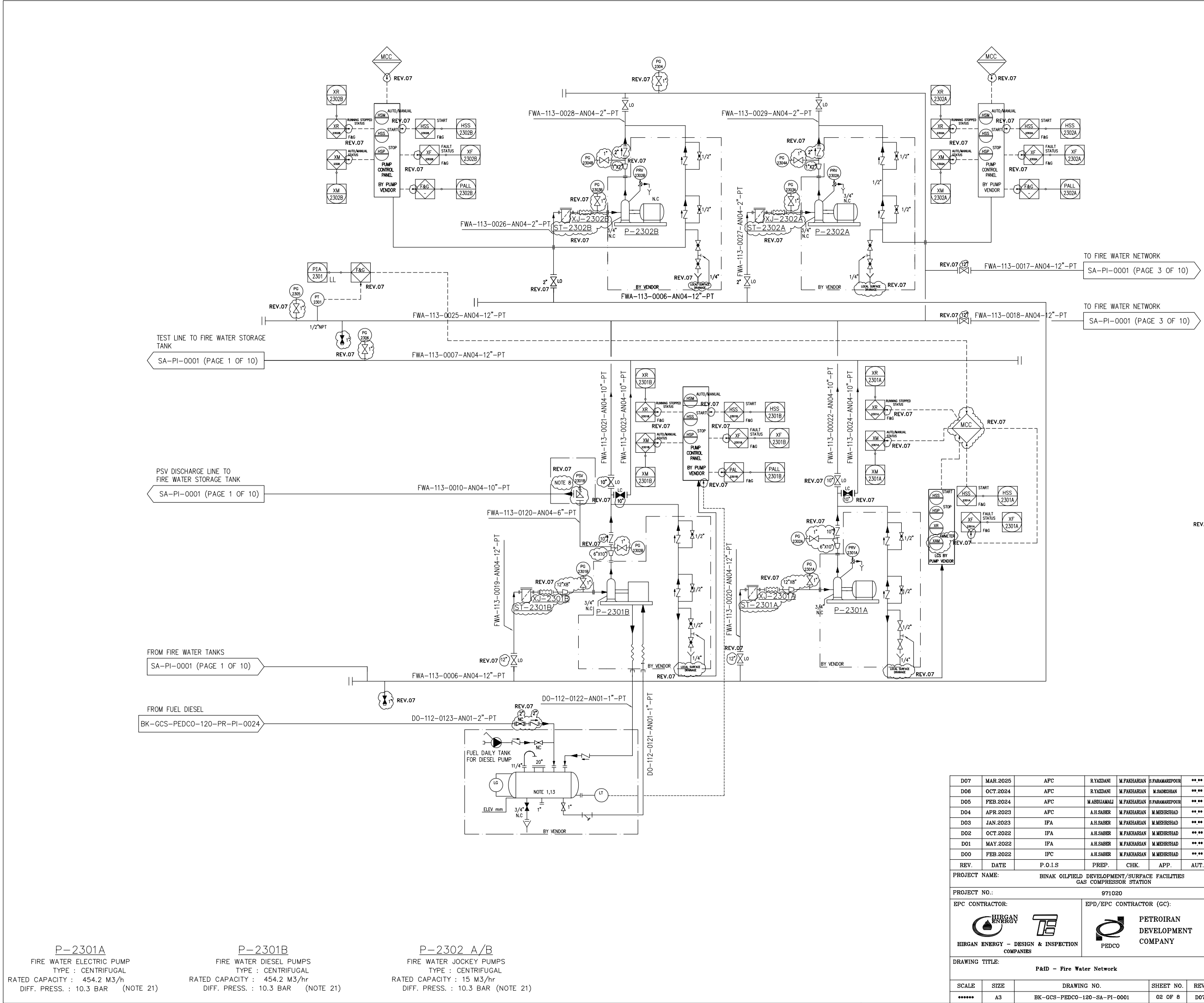




NOTES

1- THE DIESEL FUEL DAILY TANKS TO HAVE MIN. 24 HOURS DURATION FOR DIESEL ENGINE PUMP. THE ESTIMATED CAPACITY / DIMENSION SHALL BE INSTALLED AT A SAFE DISTANCE FROM THE ENGINE.

2- THE LOCAL INSTRUMENT SHALL BE VISIBLE AT GROUND LEVEL. THE RANGE OF LOCAL "FI" SHALL COVER AT LEAST 175% OF PUMP RATED CAPACITY. SYSTEM SHALL SUPPLIED COMPLETE WITH REQUIRED INSTRUMENTS.

3- THE ELEVATION OF DRUM SHALL BE ADVISED BY DIESEL VENDOR.

4- LOCAL PANEL INFORMATION SHALL BE REPEATED IN F&G PANEL LOCATED IN CONTROL BUILDING/LCR WITH HARDWIRE SIGNAL.

5- THE LOCAL CONTROLLER SHALL BE SUPPLIED BY PUMP VENDOR.

6- PRESSURE-SENSING LINE SHALL BE BRASS, COPPER, OR SERIES 300 STAINLESS STEEL PIPE OR TUBE, AND THE FITTINGS SHALL BE OF 1/4 IN. (15 MM) NOMINAL SIZE. ALSO CHECK VALVES WITH 2.4 MM HOLE DRILLED IN CLAPPER TO BE SUPPLIED BY PUMP VENDOR. SENSING LINE SHALL BE ACCORDING TO NFPA 20.

7- FIRE PUMPS LOCAL PANEL, INDICATIONS AND DEVICES SHALL BE ACCORDING TO NFPA 20.

8- THE SET PRESSURE OF SAFETY VALVE SHALL BE ADJUSTED BY PUMP VENDOR.

9- THE JOCKEY PUMPS SHALL BE CONNECTED TO THE FIRE WATER MAIN HEADER TO CONTROL MAIN RING PRESSURE (ONE WORKING & ONE STANDBY).

10- MINIMUM SIZE OF 1" AUTOMATIC RELIEF VALVE SHALL BE CONSIDERED FOR ELECTRIC FIRE PUMP ACCORDING TO NFPA 20 BY PUMP VENDOR.

11- THE DISTANCE BETWEEN TWO CHECK VALVES SHALL NOT BE LESS THAN 1.5 m.

12- THE DAILY DIESEL FUEL TANK IS IN SCOPE OF FIRE WATER DIESEL PUMP SUPPLIER.

13- THE TYPE OF SUCTION VALVES, DISCHARGE VALVES OF PUMPS AND ISOLATION VALVES ON MAIN HEADER SHALL BE INDICATING TYPE WITH LOCKING DEVICE.

14- IN THE CASE OF PUMP START FAIL THE NEXT PUMP SHALL START AUTOMATICALLY.

15- TIME CONTROLLERS ARE USED TO MAKE A TIME DELAY BEFORE PUMP START COMMANDS THAT ARE CAUSED BY TRANSIENT PRESSURE FLUCTUATIONS.

16- THE JOCKEY PUMP STOP POINT SHOULD EQUAL THE PUMP CHURN PRESSURE PLUS THE MINIMUM STATIC SUPPLY PRESSURE. START POINT SHOULD BE AT LEAST 0.68 BAR LESS THAN STOP POINT.

17- FIRST STAGE FIRE PUMP START POINT SHOULD BE 0.34 BAR LESS THAN NETWORK WORKING PRESSURE.

18- MAIN RESERVE SELECTION SWITCH SHALL BE CONSIDERED ONLY IN ONE OF THE JOCKEY PUMP PANEL.

19- PUMPS INLET AND OUTLET REDUCER SIZE SHALL BE FINALIZED AFTER RECEIVING PUMP VENDOR DATA.

20- ALL PUMPS SHALL BE ACCORDING TO NFPA 20 TYPE.

21- THE JOCKEY PUMP START AND STOP POINT ARE 6 AND 8 BARG RESPECTIVELY.

22- THE SECOND JOCKEY PUMP START POINT IS 5 BARG.

23- THE ELECTRICAL FIRE PUMP START POINT IS 4 BARG.

24- THE DIESEL FIRE PUMP WILL BE STARTED @ 3 BARG, OR IF THE DISCHARGE HEADER PRESSURE DOESN'T REACH TO 10 BARG, AFTER 20 SECONDS.

25- PRESSURE SWITCH ACTUATION AT THE LOW ADJUSTMENT SETTING SHALL INITIATE THE PUMP STARTING SEQUENCE IF THE PUMP IS NOT ALREADY IN OPERATION ON EACH CONTROL PANEL.

26- ACCORDING TO NFPA20 (6.2.1), THE PUMPS SHALL FURNISH NOT LESS THAN 150% OF RATED CAPACITY AT NOT LESS THAN 65% OF RATED HEAD.

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0008
PPD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PP-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0009

REV.	DESCRIPTION	CHECKED	REV. APPR.			
D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SADIGHIAN	** **
D05	FEB.2024	APC	M.ABDOLMALI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D04	APR.2023	APC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
D03	JAN.2023	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
D02	OCT.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
D01	MAY.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
D00	FEB.2022	IPC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME:

PROJECT NO.:

EPC CONTRACTOR:

EPD/EPC CONTRACTOR (GC):

DRAWING TITLE:

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE CLASS

SHEET

REVISION

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N.I.S.O.C./ FIELDS

BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

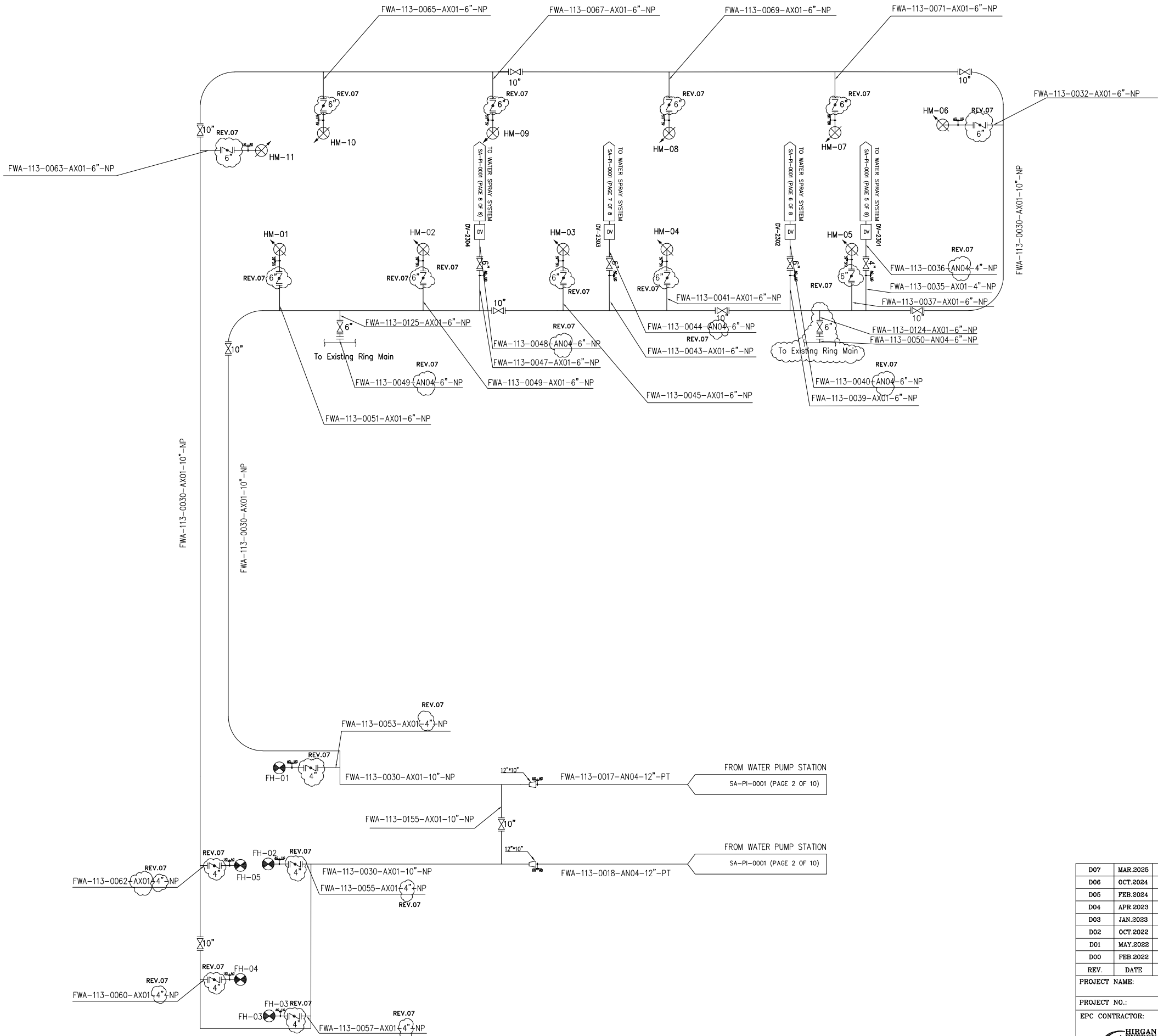
DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.



REV.07

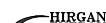
NOTES

- 1- THE HYDRANT/MONITORS SHALL BE LOCATED LONG ACCESS WAYS AND ROADWAYS, AT LEAST 15 M AWAY FROM THE EQUIPMENT TO BE PROTECTED AND 1.5 M FROM EDGE OF ACCESS ROADS.

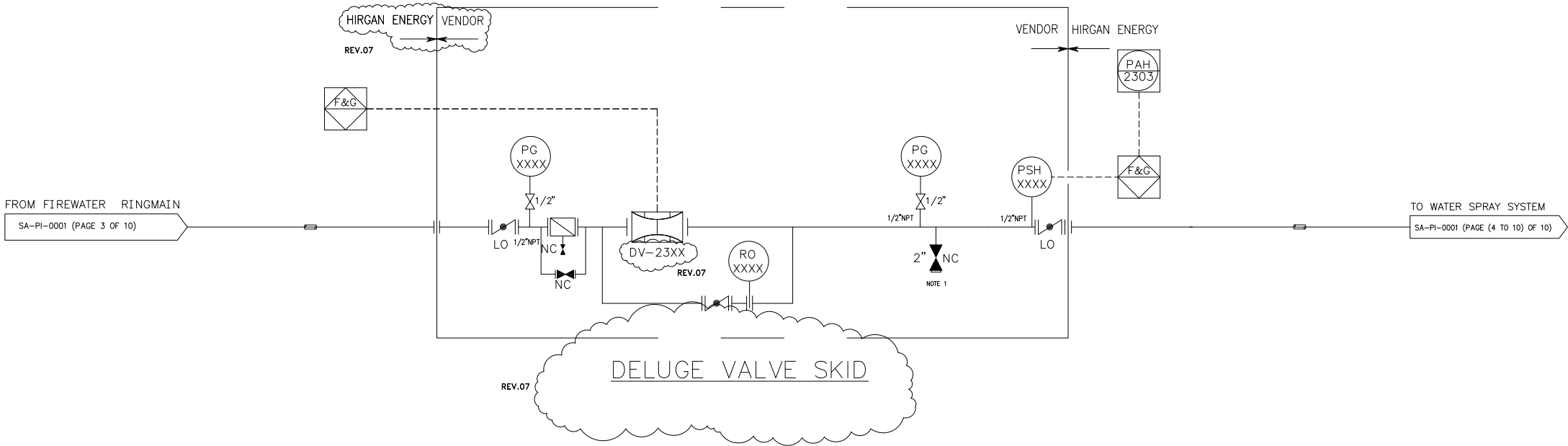
REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0002
PFD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0003

D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SABERGHAN	** **
D05	FEB.2024	APC	M.ABDOLAMALI	M.PAKHARIAN	S.PARAMARZPOUR	** **
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D00	FEB.2022	IPC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب مي باشد.
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EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION														
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			DATE		SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.						
DRAWING TITLE: P&ID – Fire Water Network						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED														
						APPROVED FOR CONSTRUCTION					BY:		DATE:							
						SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.		SHEET	REVISION
						*****	A3	BK-GCS-PEDCO-120-SA-PI-0001			03 OF 8	D07	053-073-9184	F	2	A	708995		03 OF 8	D07

DELUGE VALVE DETAILS			
DELUGE NO.	SIZE	FLOW RATE(M3/HR)	COVERED EQUIPMENT NO.
DV-2301	4	150	V-2104
			V-2105
			P-2101 A/B
DV-2302	6	155	C-2101 & 2102 A
			V-2101 A
			V-2102 A
DV-2303	6	155	C-2101 & 2102 B
			V-2101 B
			V-2102 B
DV-2304	6	161	C-2101 & 2102 C
			V-2101 C
			V-2102 C
			V-2103

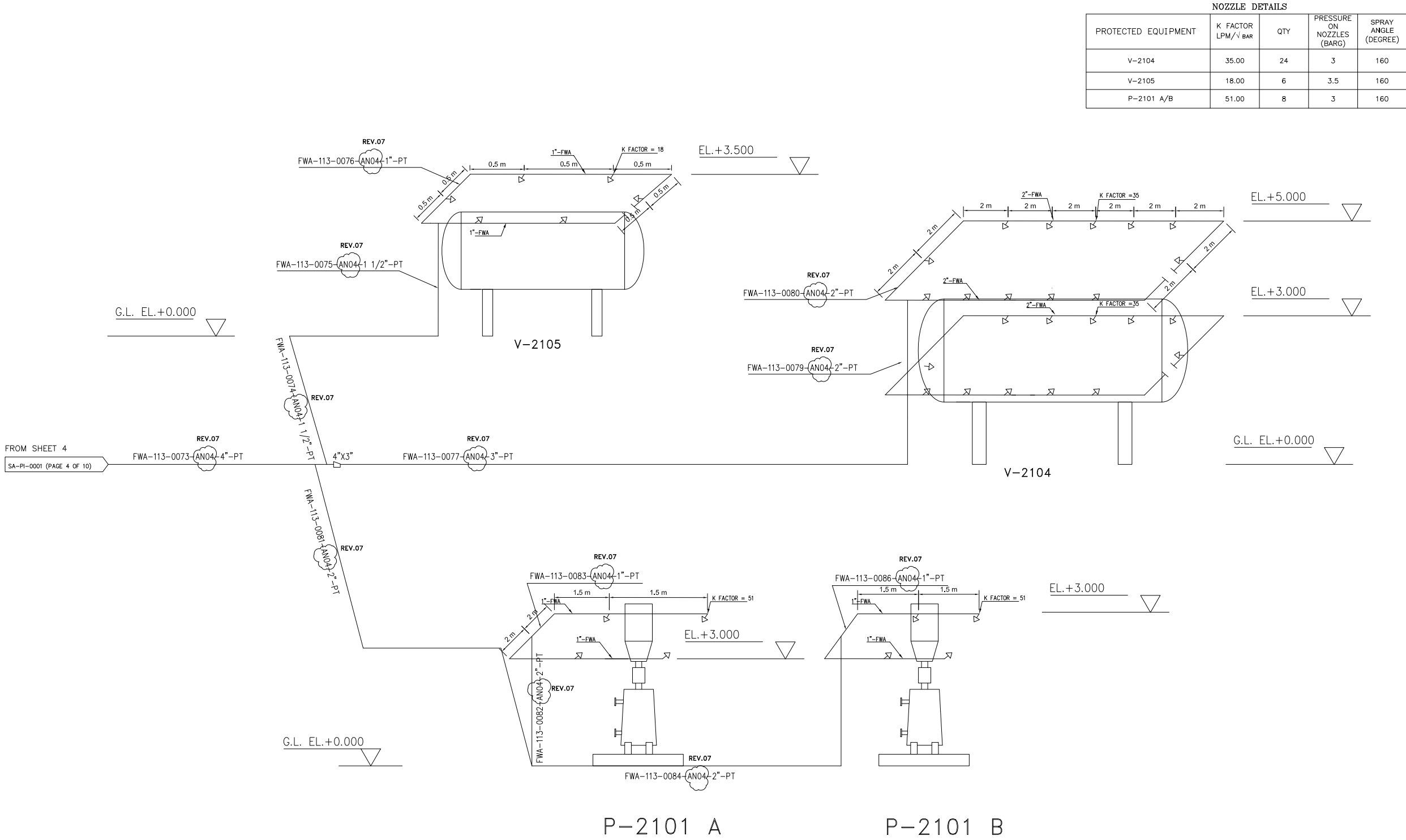


D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **							
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SABERGHAN	** **							
D05	FEB.2024	APC	M.ABDUAMALI	M.PAKHARIAN	S.PARAMARZPOUR	** **							
D04	APR.2023	APC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **							
D03	JAN.2023	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **							
D02	OCT.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **	***	*****	** *	*****	** *	*****	
D01	MAY.2022	IFA	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE	
D00	FEB.2022	IPC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **			CHECKED		REV. APPR.		
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کلیه نسخ این نقشه و از حق امتیاز متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.						
PROJECT NAME:								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.: 971020													
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION						
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY										
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DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
P&ID - Fire Water Network							APPROVED FOR CONSTRUCTION					BY:	DATE:
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001			04 OF 8	D07	053-073-9184	F	2	A	708995	04 OF 8	D07

NOTES

1- TO BE USED FOR FLUSHING AND DRAIN PURPOSE.

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0005
PFD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0003



NOZZLE DETAILS				
PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
V-2104	35.00	24	3	160
V-2105	18.00	6	3.5	160
P-2101 A/B	51.00	8	3	160

NOTES

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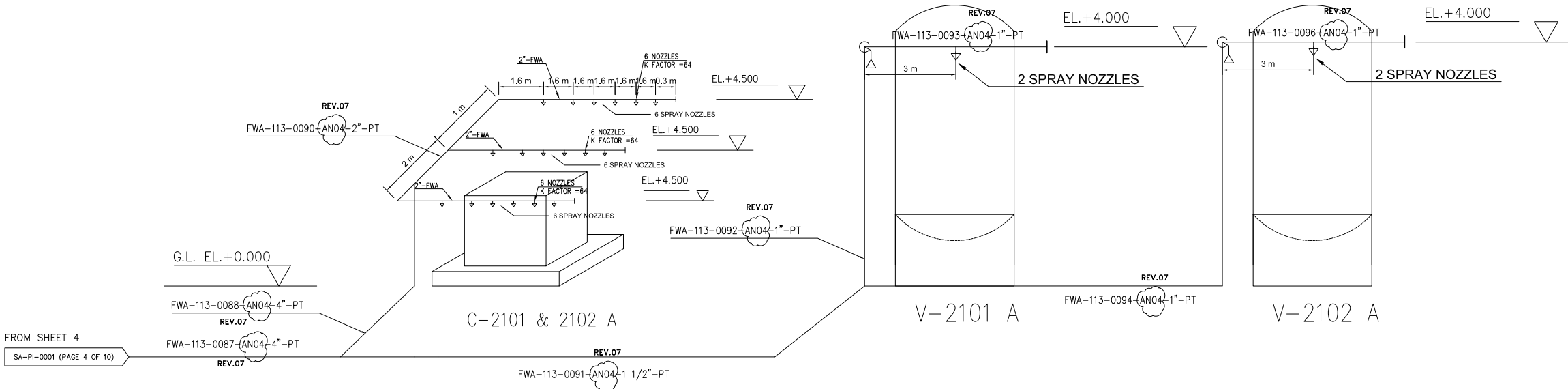
REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0008
PFD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0009

D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SADREGHAN	** **
D05	FEB.2024	APC	M.ABDUAMALI	M.PAKHARIAN	S.PARAMARZPOUR	** **
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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION						
PROJECT NO.:			971020			
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:						
P&ID - Fire Water Network						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001			05 OF 8	D07

REV.	DESCRIPTION	CHECKED	REV.	APPR.
***	*****	** **	*** ****	** **
BY	DATE	BY	DATE	DATE
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
APPROVED FOR CONSTRUCTION				
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001	05 OF 8	D07

NOZZLE DETAILS				
PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 A	64.00	18	4	160
V-2101 A	35.00	2	3	160
V-2102 A	30.00	2	3	160



NOTES

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REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0008
FPD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0009

D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SABERGHAN	** **
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D00	FEB.2022	IPC	A.H.SABER	M.PAKHARIAN	M.MEHRSHAD	** **

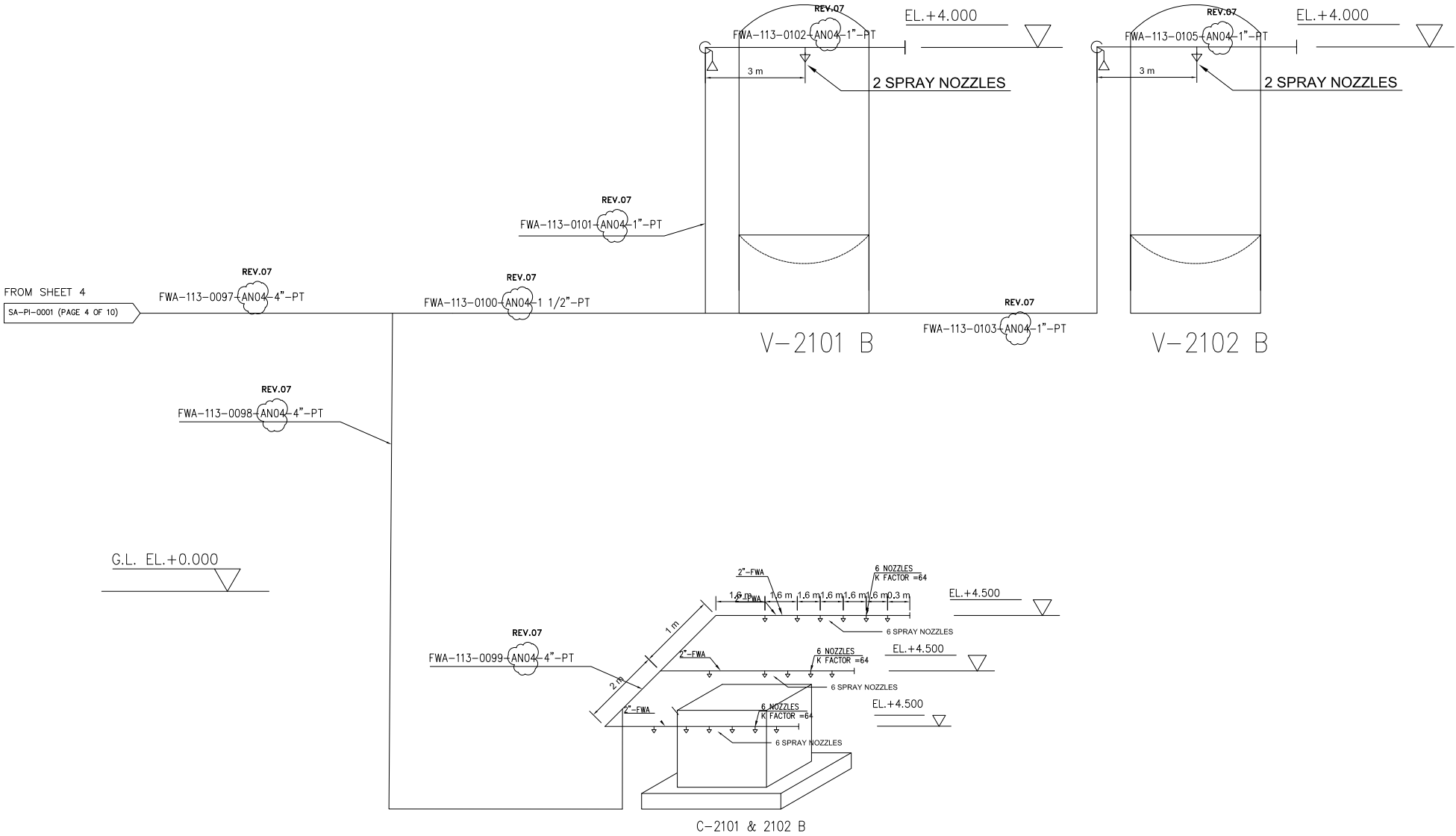
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION						
PROJECT NO.:			971020			
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:						
P&ID – Fire Water Network						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001			06 OF 8	D07

REV.	DESCRIPTION	CHECKED	REV.	APPR.
***	*****	** **	*** ****	** **
***	*****	BY	DATE	BY
***	*****	DATE	BY	DATE
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
APPROVED FOR CONSTRUCTION				
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001	06 OF 8	D07

NOZZLE DETAILS				
PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 B	64.00	18	4	160
V-2101 B	35.00	2	3	160
V-2102 B	30.00	2	3	160

NOTES

1- NOZZLES WILL BE INSTALLED WITH 2.5 METERS DISTANCES FROM EACH OTHER IN LENGTHS. THIS IS BASED ON COVERAGE AREA BY EACH NOZZLE BASED ON SELECTED PROPER NOZZLE TYPE.

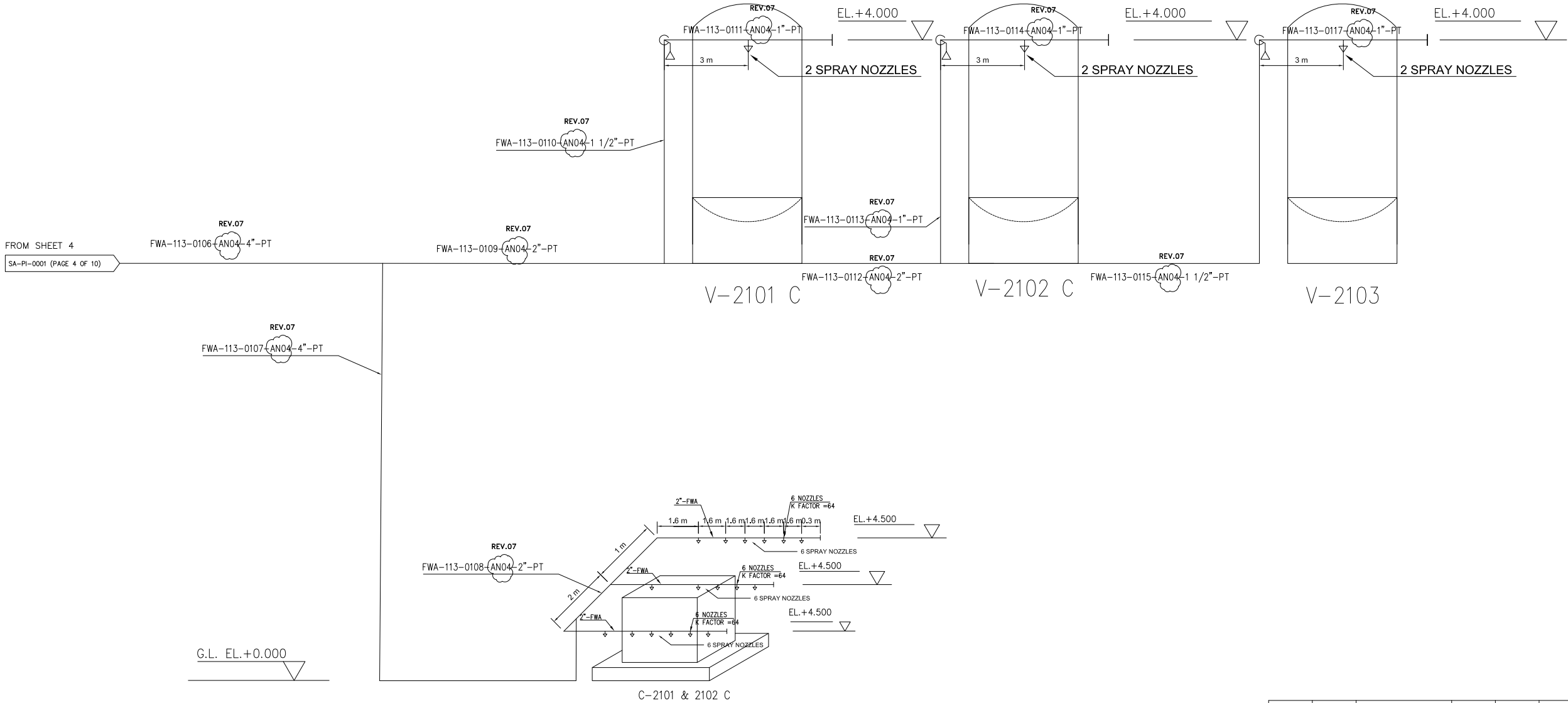


D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SABERGHAN	** **
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PROJECT NAME:		BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION			
PROJECT NO.:		971020			
EPC CONTRACTOR:		EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:					
P&ID - Fire Water Network					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001		07 OF 8	D07

REV.	DESCRIPTION	CHECKED	REV.	APPR.
***	*****	** **	*** ****	** **
***	*****	BY	DATE	BY
***	*****	DATE	BY	DATE
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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION				
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APPROVED FOR CONSTRUCTION			BY:	
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001	07 OF 8	D07

NOZZLE DETAILS				
PROTECTED EQUIPMENT	K FACTOR LPM/√ BAR	QTY	PRESSURE ON NOZZLES (BARG)	SPRAY ANGLE (DEGREE)
C-2101 & 2102 C	64.00	18	4	160
V-2101 C	35.00	2	4	160
V-2102 C	26.00	2	4	160
V-2103	26	2	4	160



NOTES

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REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER DEMAND	BK-GCS-PEDCO-120-SA-CN-0008
PFD - FIRE WATER SYSTEM	BK-GCS-PEDCO-120-SA-PF-0001
Fire Water Hydraulic Calculation Note	BK-GCS-PEDCO-120-SA-CN-0009

D07	MAR.2025	APC	R.YAZDANI	M.PAKHARIAN	S.PARAMARZPOUR	** **
D06	OCT.2024	APC	R.YAZDANI	M.PAKHARIAN	M.SABERHAN	** **
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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

EPC CONTRACTOR:		EPD/EPC CONTRACTOR (GC):	
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY	

DRAWING TITLE: P&ID - Fire Water Network

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001	08 OF 8	D07

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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION				
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BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.
*****	A3	BK-GCS-PEDCO-120-SA-PI-0001	08 OF 8	D07