

NOTES



LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

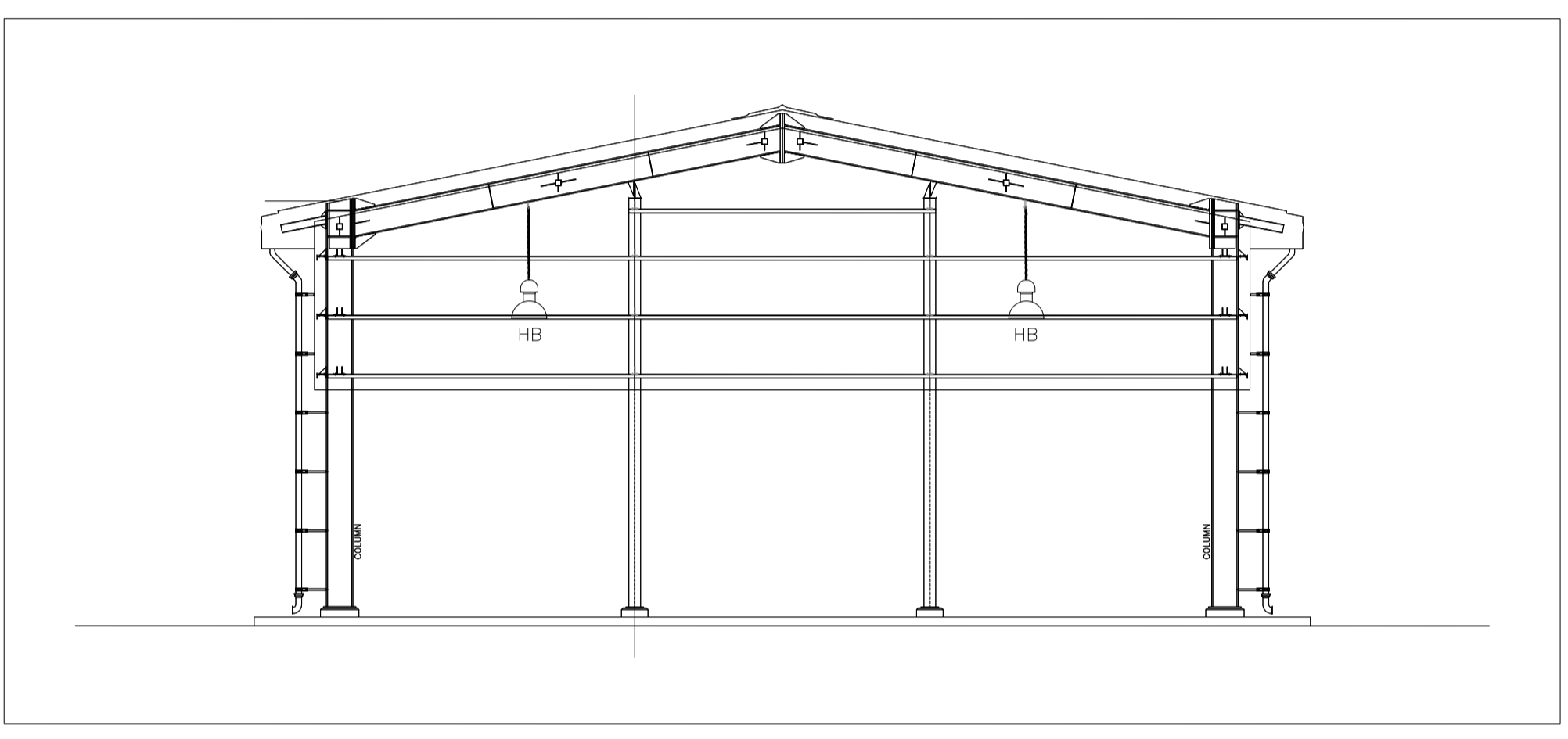
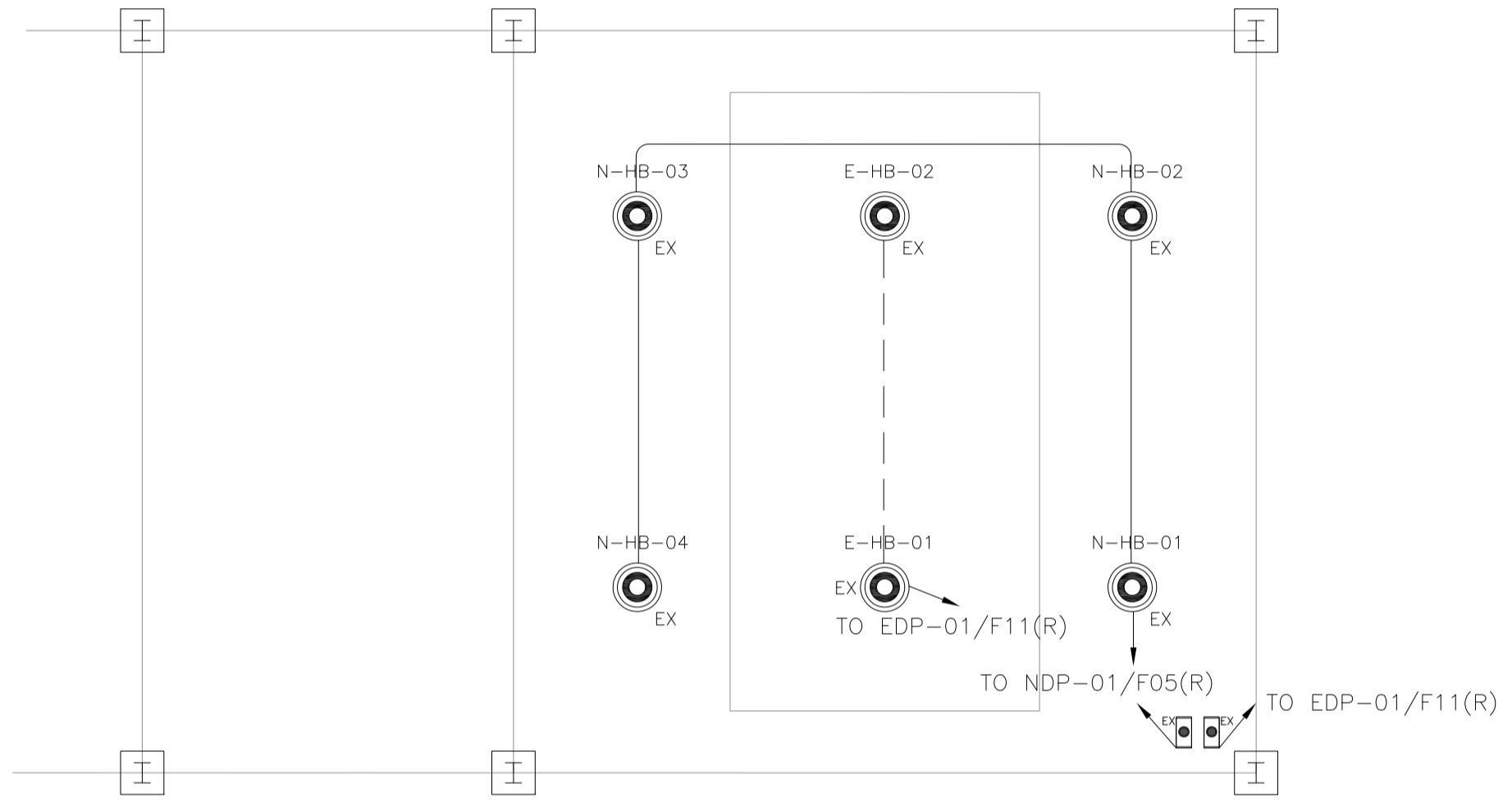
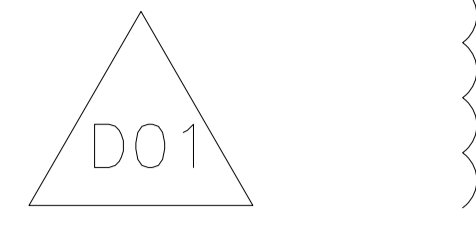
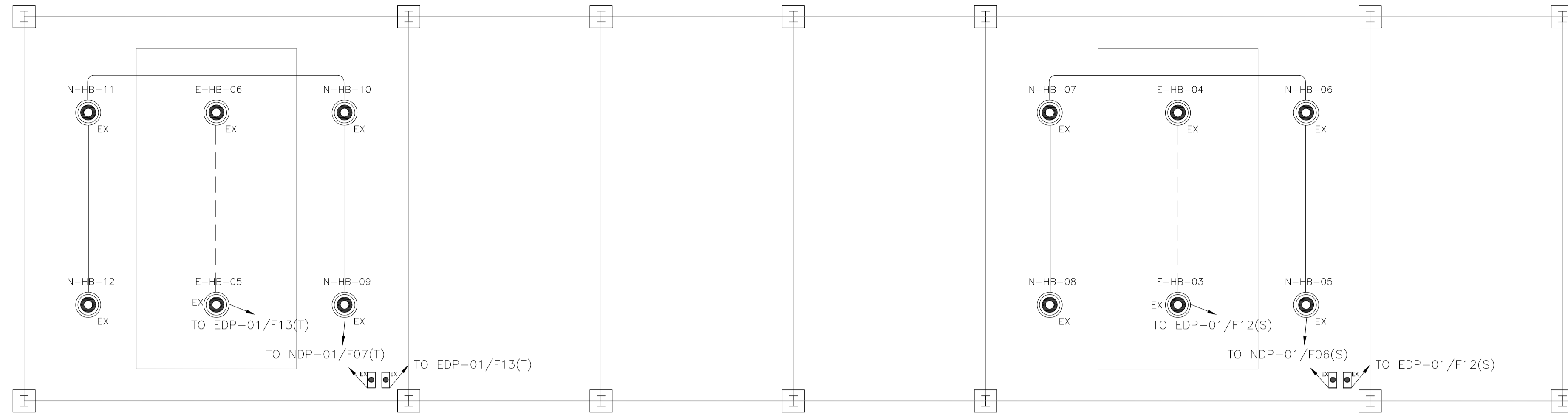
# LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	CHECKED	REV.	APPR.		
DO1	MAY.2023	IPA	H.SHAQIBA	M.FAKHARIAN	A.M.MOHSENI	**.**						
DO0	MAY.2022	IPC	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	**.**						
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:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER							APPROVED FOR CONSTRUCTION BY: _____ DATE: _____					
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0004			01 OF 15	DO1	053-073-9184	F	2	P	709049	01 OF 15 DO1



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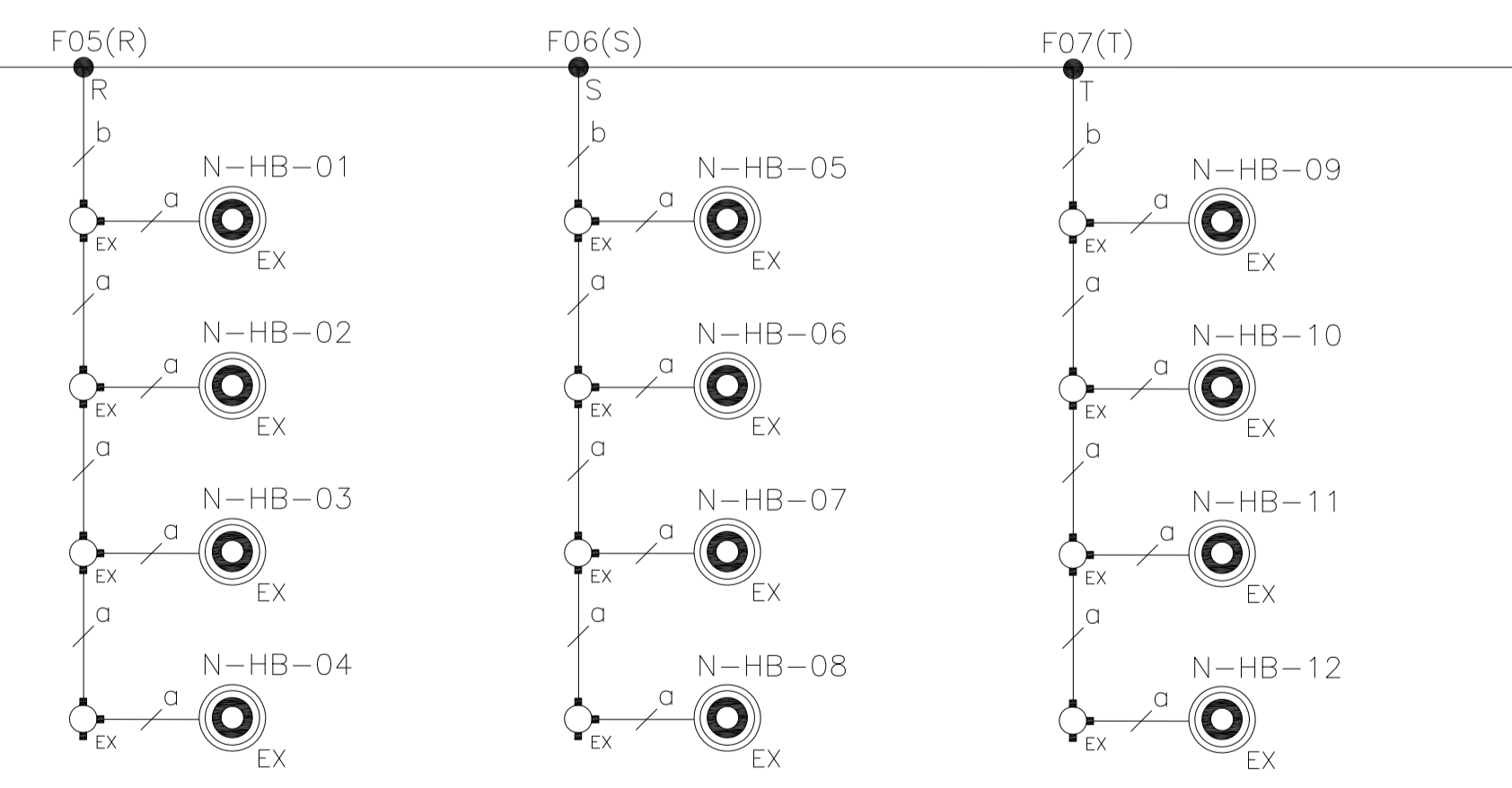
(VENDOR TITLE BLOCK)\*\*



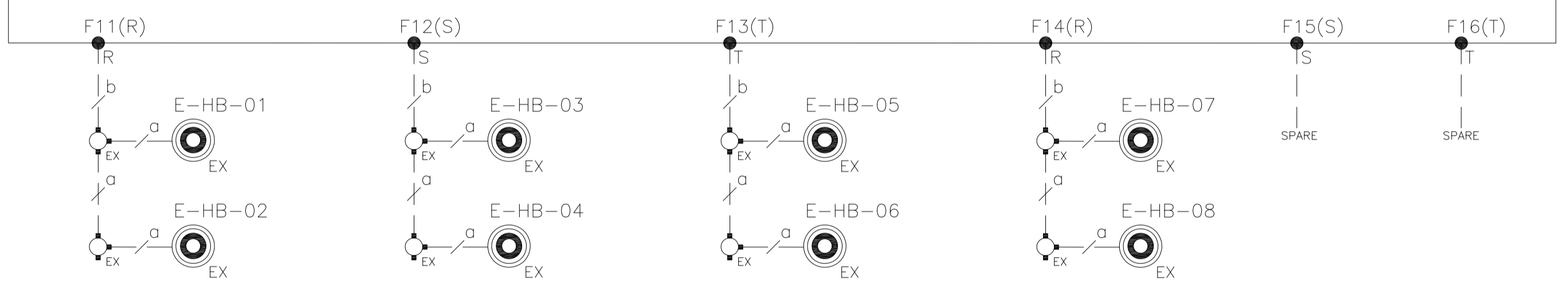
- NOTES**
- HIGH-BAY LIGHTING FIXTURE ARE PENDANT.
  - ELECTRICAL DISTRIBUTION PANEL IS WALL MOUNTED TYPE & IP 55.
  - CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM.
  - ALTHOUGH THE LOCATION OF EQUIPMENTS HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE. IN ADDITION THERE IS A CRANE IN THIS SHELTER WHICH LIGHTING FIXTURES SHALL BE INSTALLED ABOVE IT.
  - ALL CABLE LINES SHALL BE CONNECTED TO PANEL FROM THE NEAREST PATH.
  - CABLING FOR HIGH BAY FIXTURE SHALL BE LAID IN HDG CONDUIT.
  - ALL HIGH-BAY FIXTURES SHALL BE INSTALLED ABOVE CRANE.
  - OUTDOOR ELECTRICAL DISTRIBUTION PANELS INCLUDING NDB & EDB ARE AS FOLLOW:  
GCS-400-NDP-01: PROCESS AREA NORMAL LIGHTING PANEL  
GCS-400-EDP-01: PROCESS AREA EMERGENCY LIGHTING PANEL
  - OUTDOOR ELECTRICAL DISTRIBUTION PANELS WILL BE INSTALLED IN SAFE AREA NEAR COMPRESSOR SHELTER.

- LEGEND**
- 250W METAL HALID, DUST & EXPULSION PROOF HIGH-BAY, IP 65
  - METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & EXPULSION PROOF LIGHTING JUNCTION BOX, 3WAY, IP65
  - PUSH BUTTON(EX) SWITCH, IP65
  - CU/PVC/PVC NORMAL LINE
  - CU/PVC/PVC EMERGENCY LINE
  - OUTDOOR DISTRIBUTION PANEL

**GCS-400-NDP-01**



**GCS-400-EDP-01**

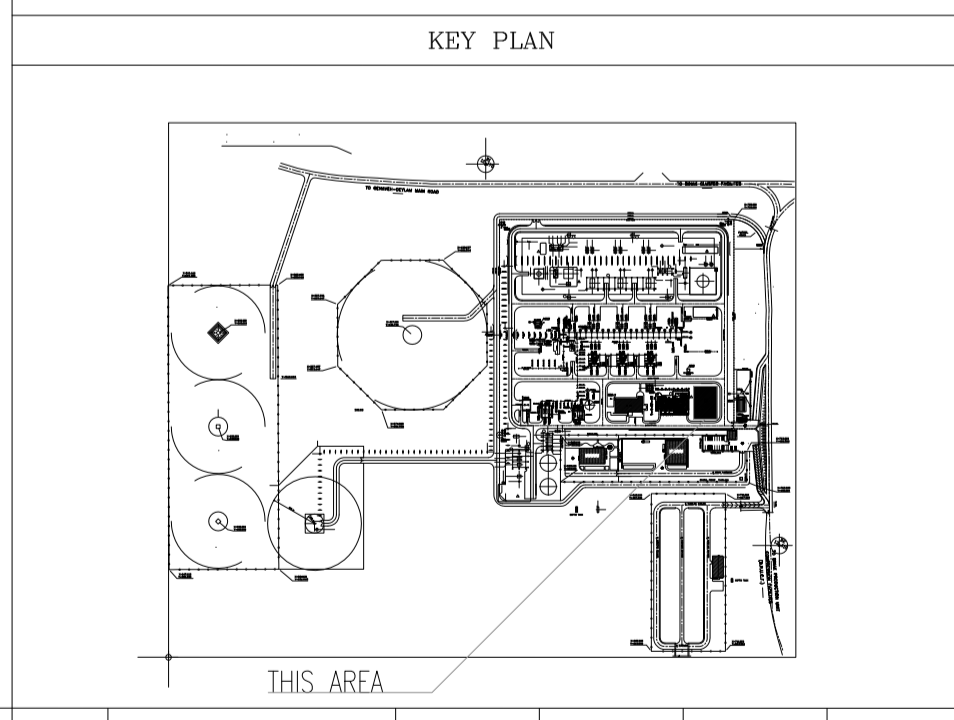


- LIGHTING FIXTURE NUMBERING PROCEDURE**
- X-X-X
- SEQUENCE NUMBER
  - FLC: FLUORESCENT LIGHTING LAMP
  - FPD: FLUORESCENT PRIMATE DIFFUSER LAMP
  - XF: EXPLOSION PROOF FLUORESCENT FIXTURE
  - IL: INCANDESCENT LAMP
  - CM: CEILING MOUNTED
  - EX: EXIT LIGHT
  - FAN: EXHAUST FAN
  - HB: HIGH BAY
  - MT: METAL HALID
  - SC: SOCKET
  - SP-SC: SPLIT SOCKET
  - N: NORMAL
  - E: EMERGENCY

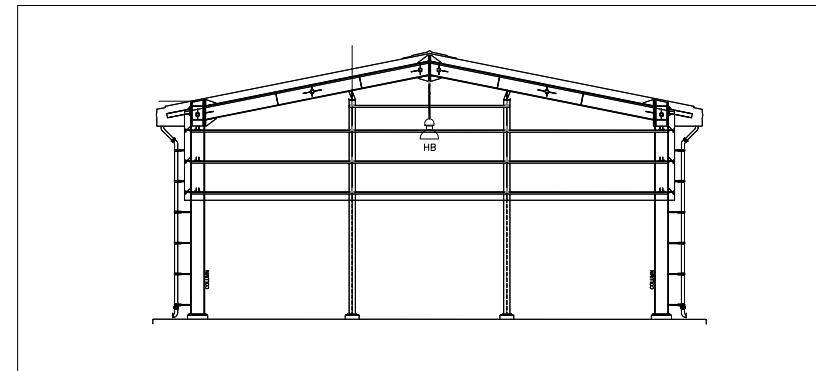
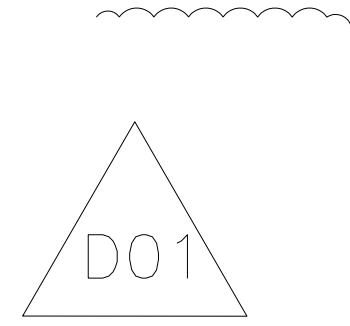
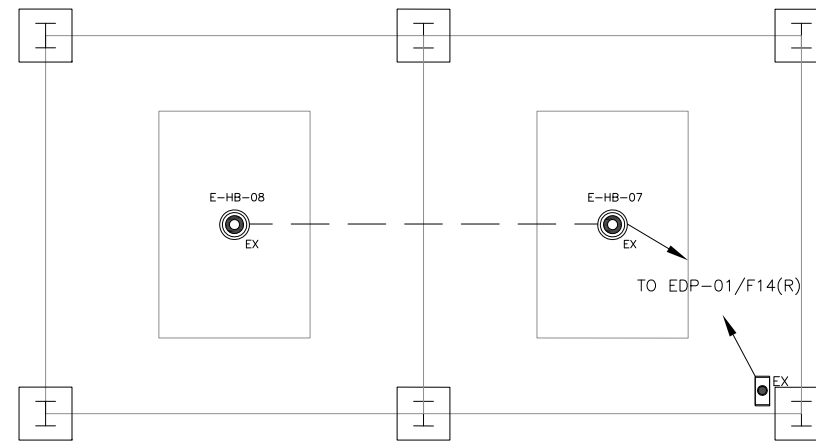
#	TYPE OF CABLE	CABLE TAG
1	3X2.5mm2, CU/PVC/PVC	a
2	3X4mm2, CU/PVC/PVC	b
3	4X2.5mm2, CU/PVC/PVC	c

**COMPRESSOR SHELTER**

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002



REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
D01	MAY 2023	IPFA	H.SHAKIBA	M.FAKHARIAN	M.Mehrabad	***
D00	MAY 2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.Mehrabad	***
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: HIRGAN ENERGY			EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER						
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION			BY:		DATE:	
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION
AS SHOWN	A1	BK-GCS-PEDCO-120-EL-PY-0004	02 OF 15	D01	053-073-9184	F
CLASS	SERIAL NO.	SHEET	REVISION			
P	709049	02 OF 15	D01			



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  - HB: HIGH BAY
  - MT: METAL HALID
  - SC: SOCKET
  - SP-SC: SPLIT SOCKET
  - N: NORMAL
  - E: EMERGENCY

CHEMICAL INJECTION PACKAGES & STORAGE SHELTER

- NOTES
- 1- HIGH-BAY LIGHTING FIXTURE ARE PENDANT.
  - 2- ELECTRICAL DISTRIBUTION PANEL IS WALL MOUNTED TYPE & IP 55.
  - 3- CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM.
  - 4- ALTHOUGH THE LOCATION OF EQUIPMENTS HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE. IN ADDITION THERE IS A CRANE IN THIS SHELTER WHICH LIGHTING FIXTURES SHALL BE INSTALLED ABOVE IT.
  - 5- ALL CABLE LINES SHALL BE CONNECTED TO PANEL FROM THE NEAREST PATH.
  - 6- CABLING FOR HIGH BAY FIXTURE SHALL BE LAIED IN HDG CONDUIT.
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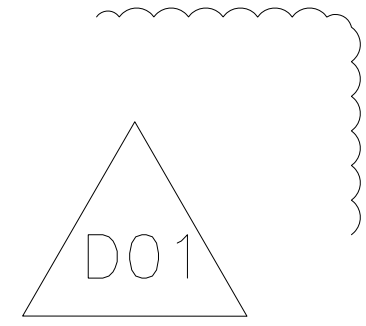
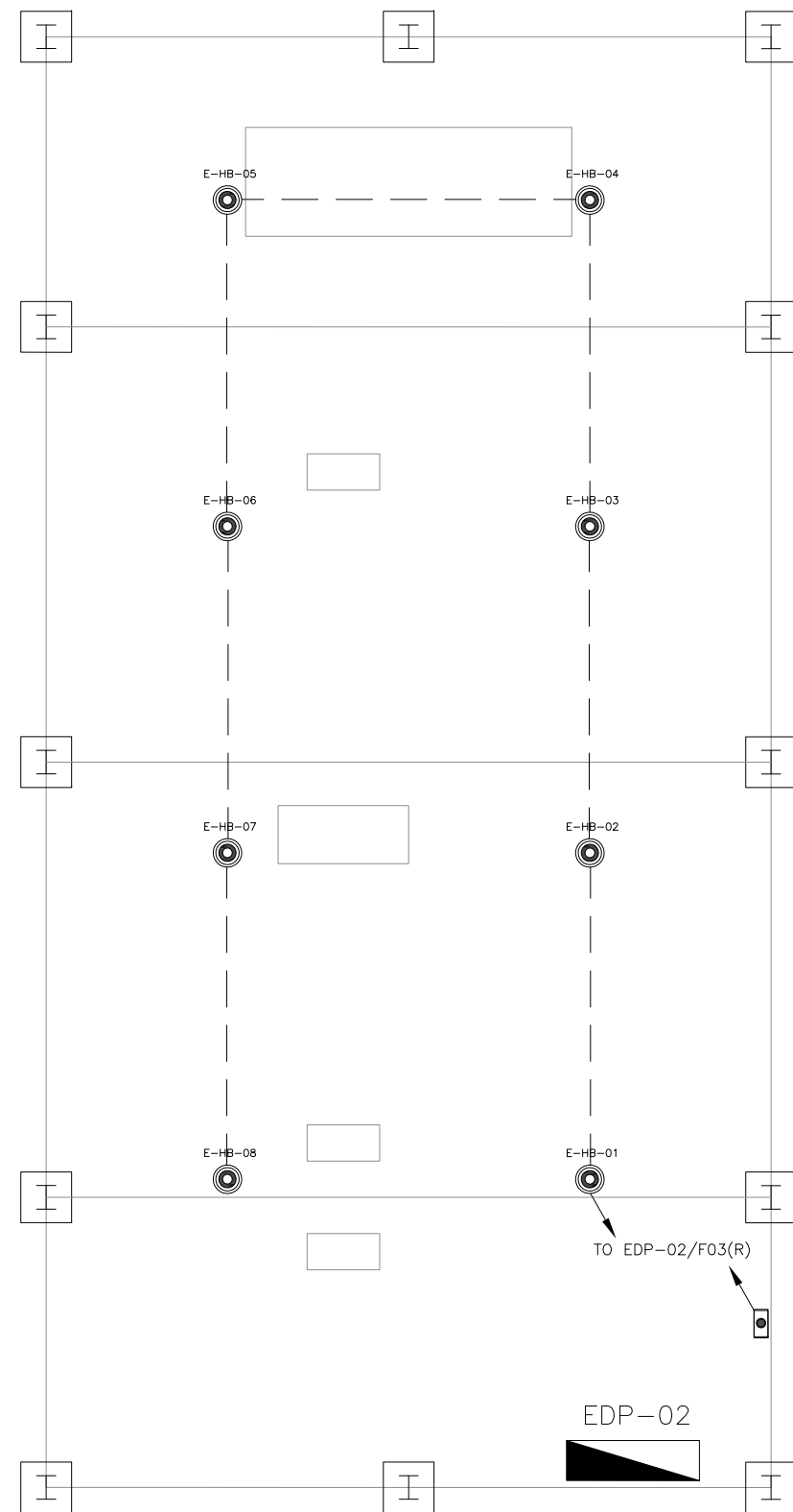
- LEGEND
- 250W METAL HALID, DUST & EXPULSION PROOF HIGH-BAY, IP 65 EX
  - METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & EXPULSION PROOF LIGHTING JUNCTION BOX, 3WAY, IP65 EX
  - PUSH BUTTON(EX) SWITCH, IP65 EX
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  - OUTDOOR DISTRIBUTION PANEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-ONRA-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-ONRA-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT FLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

KEY PLAN

REV.	DESCRIPTION	BY	DATE	CHECKED	REV. APPR.						
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **					
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **					
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.					
PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL											
PROJECT NO.: 971020											
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):								
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO								
DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER											
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
AS SHOWN	A3	BK-GCS-PEDCO-120-AR-DW-0002	03 OF 15	D01	053-073-9184	F	2	P	709049	03 OF 15	D01

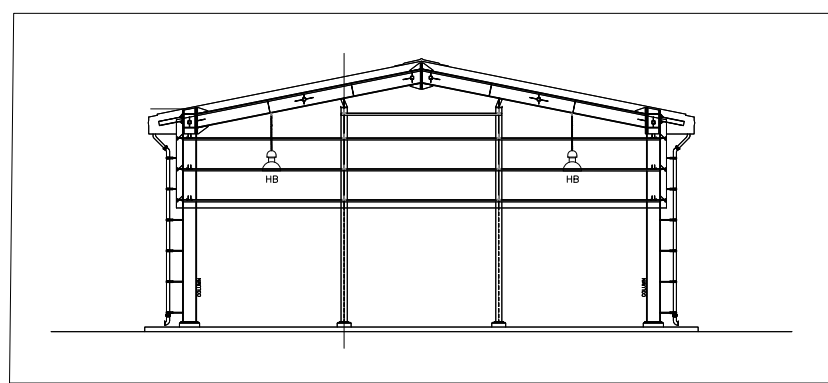
اسم و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.  
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- NOTES**
- 1- HIGH-BAY LIGHTING FIXTURE ARE PENDANT.
  - 2- ELECTRICAL DISTRIBUTION PANEL IS WALL MOUNTED TYPE & IP 55.
  - 3- CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM.
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  - 7- ALL HIGH-BAY FIXTURES SHALL BE INSTALLED ABOVE CRANE.
  - 8- OUTDOOR ELECTRICAL DISTRIBUTION PANELS INCLUDING NDB & EDB ARE AS FOLLOW:  
GCS-400-NDP-02: UTILITY AREA NORMAL LIGHTING PANEL  
GCS-400-EDP-02: UTILITY AREA EMERGENCY LIGHTING PANEL

- LEGEND**
- SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, INDUSTRIAL TYPE, IP65
  - SOCKET OUTLET POWER WITH THREE PHASE 400V, 63A, INDUSTRIAL TYPE, IP65
  - 250W METAL HALID, DUST & MOISTURE PROOF HIGH-BAY, IP65
  - METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & MOISTURE PROOF LIGHTING JUNCTION BOX, 3WAY, IP65
  - PUSH BUTTON SWITCH, IP65
  - CU/PVC/PVC NORMAL LINE
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REFERENCE DRAWING	DRG. No.
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CALCULATION NOTE FOR INDOOR AREA LIGHTING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-ONRA-PEDCO-000-EL-DW-0003
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UNIT FLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002



FIRE WATER PUMP HOUSE

**KEY PLAN**

REV.	DATE	DESCRIPTION	BY	DATE	CHECKED	REV.	DATE	APPR.
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**	**	**
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**	**	**

اسم و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.  
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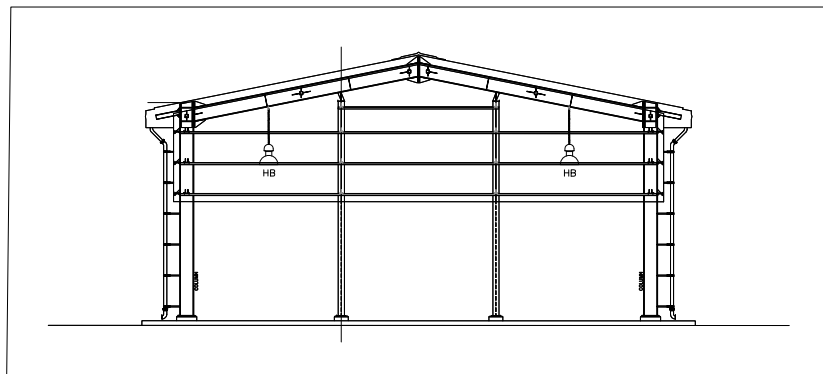
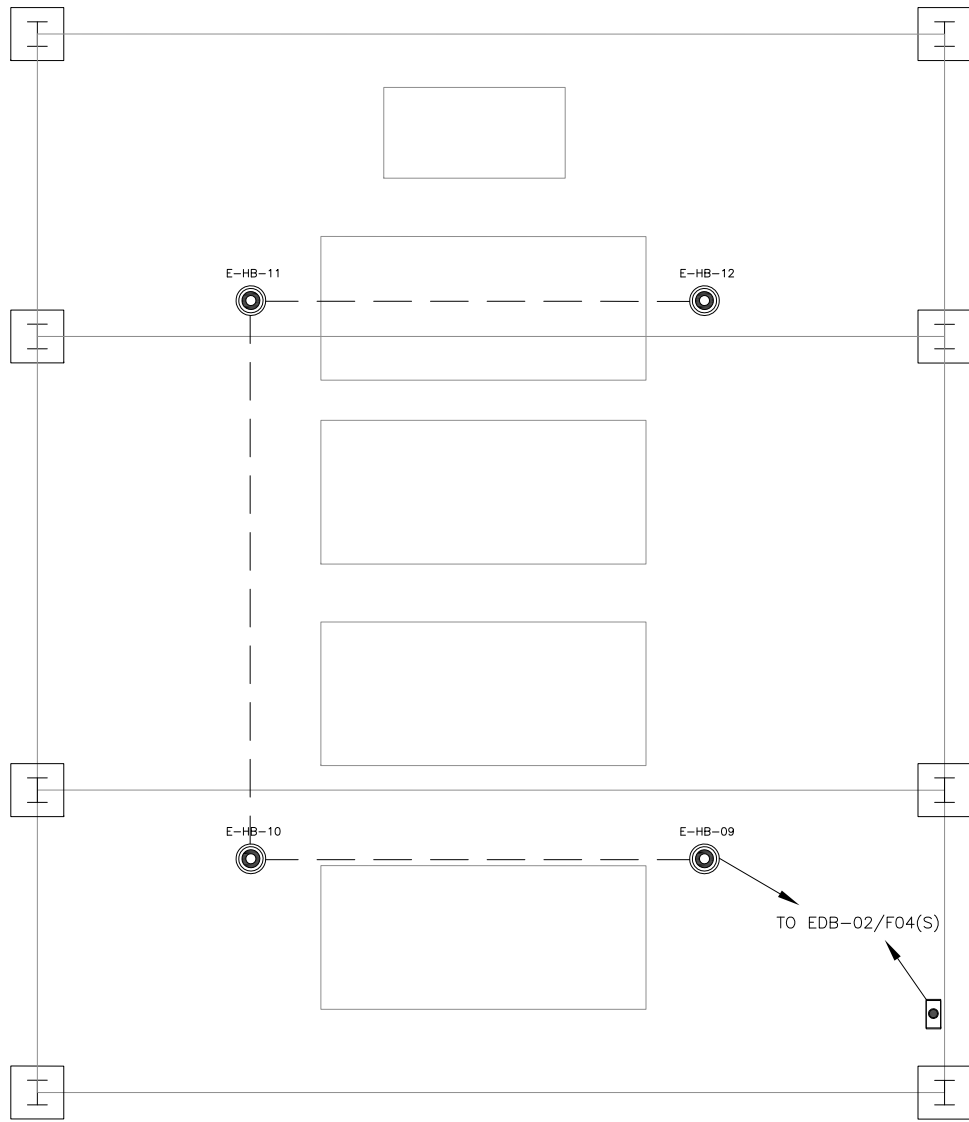
**PROJECT NAME:** BINAK OILFIELD DEVELOPMENT GENERAL  
**PROJECT NO.:** 971020

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

**DRAWING TITLE:** LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

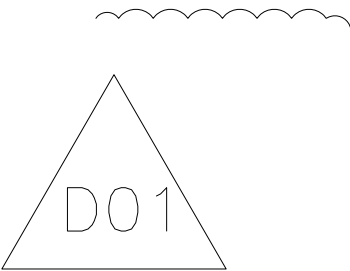
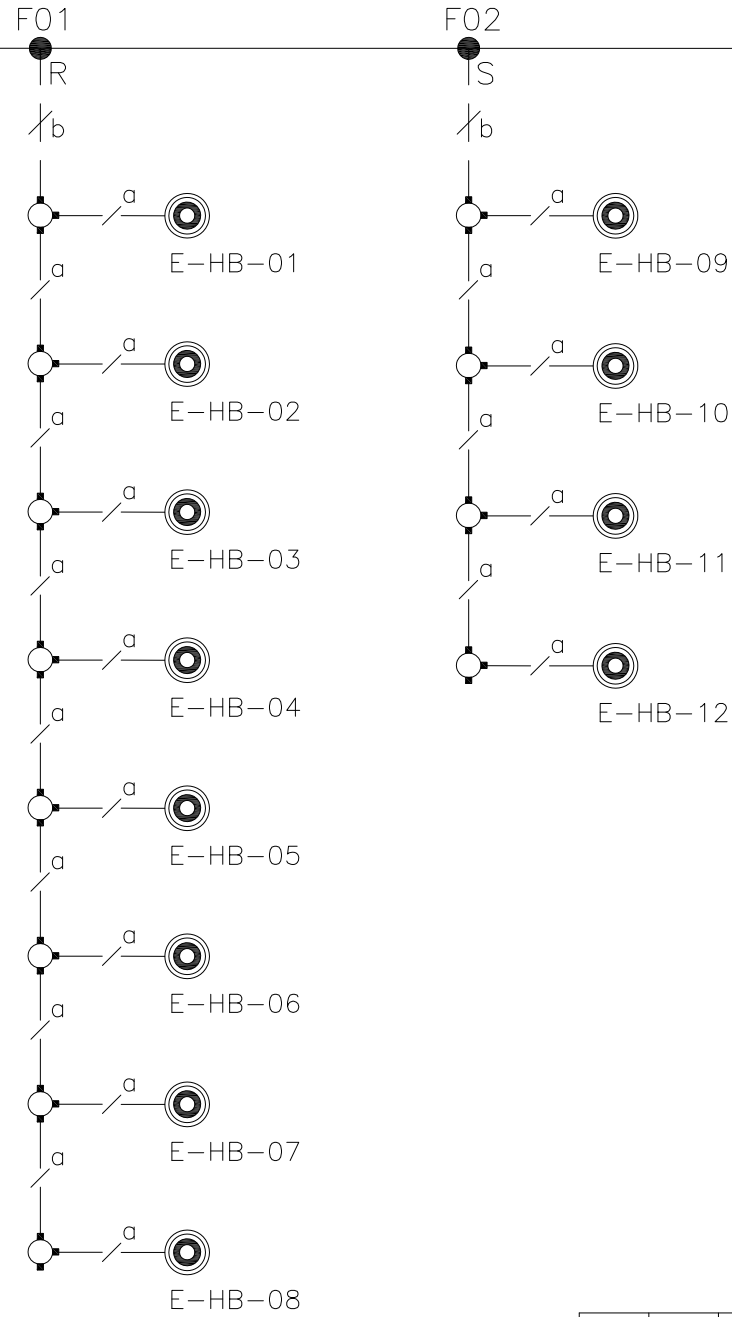
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-AR-DW-0002	04	OF 15	D01	053-073-9184	F	2	P	709049

**APPROVED FOR CONSTRUCTION** BY: DATE: NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED



UTILITY SHELTER

# GCS-400-EDP-02



- NOTES**
- HIGH-BAY LIGHTING FIXTURE ARE PENDANT.
  - ELECTRICAL DISTRIBUTION PANEL IS WALL MOUNTED TYPE & IP 55.
  - CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM.
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  - CU/PVC/PVC NORMAL LINE
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REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-ONRA-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-ONRA-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT FLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

**KEY PLAN**

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
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D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **

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PROJECT NO.: 971020

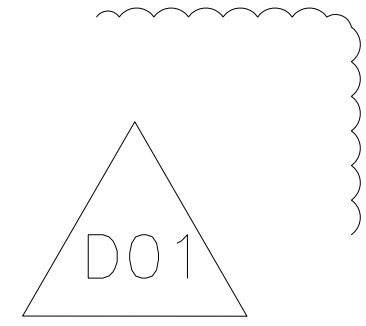
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EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY PEDCO

DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-AR-DW-0002	05 OF 15	D01	053-073-9184	F	2	P	709049	05 OF 15 D01

# BILL OF MATERIAL

ITEM	EQUIPMENT	SYMBOL	QTY	SPARE	DESCRIPTION
1	HIGH-BAY		12	2	250W METAL HALID, DUST & MOISTURE PROOF HIGH-BAY, IP65
2	HIGH-BAY		20	4	250W METAL HALID, DUST & EXPULSION PROOF HIGH-BAY, IP65
3	PUSH BUTTON SWITCH		2	1	PUSH BUTTON SWITCH, IP65
4	PUSH BUTTON SWITCH		7	1	PUSH BUTTON(EX) SWITCH, IP65
5	JUNCTION BOX		12	2	METALLIC LIGHTING JUNCTION BOX,3WAY DUST & MOISTURE PROOF LIGHTING JUNCTION BOX,3WAY , IP65
6	JUNCTION BOX		20	4	METALLIC LIGHTING JUNCTION BOX,3WAY DUST & EXPULSION PROOF LIGHTING JUNCTION BOX,3WAY, IP65
7	CABLE 3X2.5mm2	————	200 m	50 m	CU/PVC/PVC
8	CABLE 3X4mm2	————	450 m	90 m	CU/PVC/PVC
9	TRAY & LADDER	-	AS REQ.	AS REQ.	
10	CONDUIT	-	AS REQ.	AS REQ.	-



NOTES

LEGEND

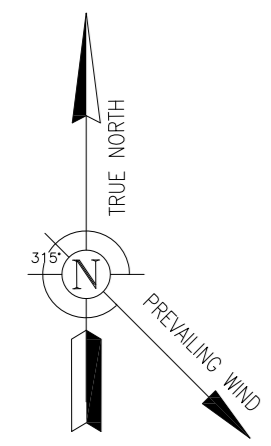
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UNIT FLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
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HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

KEY PLAN

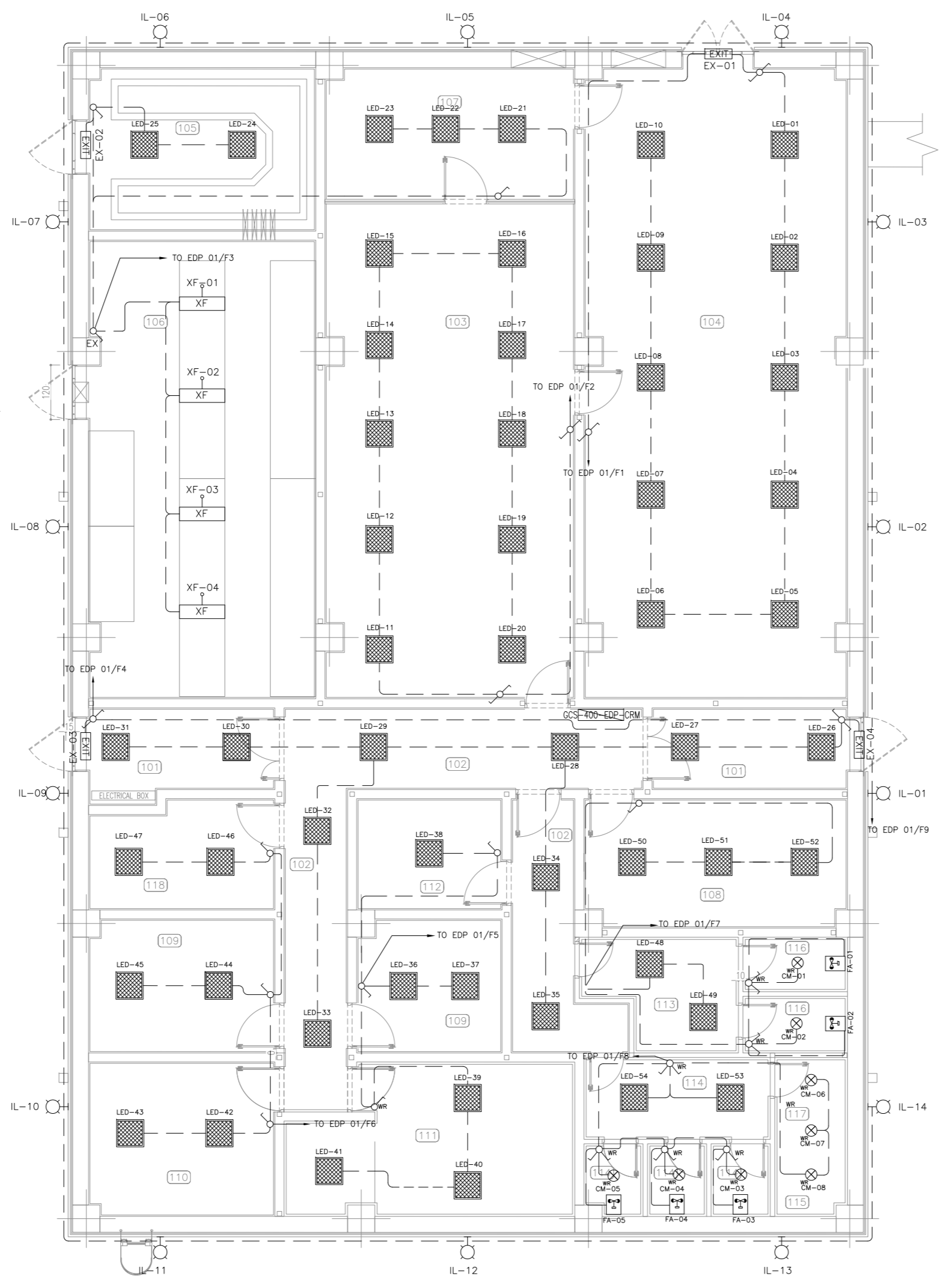
## BILL OF MATERIAL FOR LIGHTING IN UTILITY AREA

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE	
D01	MAY.2023	IPA	H.SHAHBA	M.FAKHARIAN	M.MEHRSHAD	**..						
D00	MAY.2022	IPC	H.SHAHBA	M.FAKHARIAN	M.MEHRSHAD	**..						
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	CHECKED	REV.	APPR.		
PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL							<p>اسم و کلیه نسخ این نقشه و حق افشاس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.</p> <p>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS</p>					
PROJECT NO.: 971020							<p>NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED</p>					
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT GENERAL					
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY				DATE    SCALE    DRAWING BY    CHECKED BY    PROJECT ENG.					
DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER												
APPROVED FOR CONSTRUCTION							BY:		DATE:			
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-AR-DW-0002		06 OF 15	D01	053-073-9184	F	2	P	709049	06 OF 15	D01

THIS DRAWING WILL BE FINALIZED LATER



D01



**LIGHTING FIXTURE NUMBERING PROCEDURE**

- X-X-X
- SEQUENCE NUMBER
  - LED: LIGHT EMITTED DIODE
  - XF: EXPLOSION PROOF FLUORESCENT FIXTURE
  - IL: INCANDESCENT LAMP
  - CM: CEILING MOUNTED
  - EX: EXIT LIGHT
  - FAN: EXHAUST FAN
  - HB: HIGH BAY
  - MT: METAL HALID
  - SC: SOCKET
  - SP-SC: SPLIT SOCKET
- E: EMERGENCY

#	TYPE OF CABLE	CABLE TAG
1	3X2.5mm2, CU/PVC/PVC	a
2	3X4mm2, CU/PVC/PVC	b
3	4X2.5mm2, CU/PVC/PVC	c

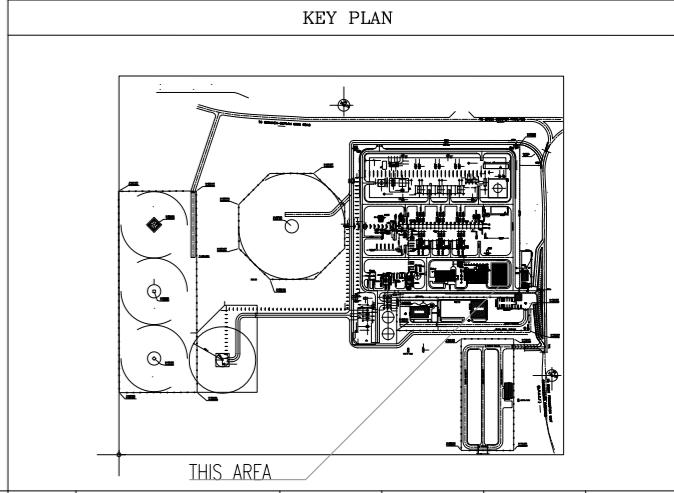
**GROUND FLOOR LAYOUT OF CONTROL BUILDING**

- NOTES**
- THE MOUNTING HEIGHT OF THE FITTINGS ABOVE FINISHED FLOOR LEVEL SHALL BE AS FOLLOWS:
    - SOCKET OUTLET (GENERAL)= 30 Cm
    - SOCKET OUTLET (PANTRY)= 110 Cm
    - LIGHTING SWITCH =110 Cm
  - METALLIC BODY OF ALL EQUIPMENT SHOULD BE CONNECTED TO EARTH SYSTEM.
  - INDOOR DISTRIBUTION PANEL IS WALL MOUNTED & IP42
  - BOTTOM POINT OF WALL MOUNTED PANEL SHOULD BE 1.5m ABOVE FINISHED FLOOR.
  - COINCIDENCE FACTOR (CF) FOR CALCULATING TOTAL DEMANDED LOADS (TDL) CONSIDERED AS FOLLOWS:
    - FOR LIGHTING CIRCUIT CF=1
    - FOR SOCKET OUTLET = 0.5
  - CABLE ENTRY TO PANEL IS FROM BOTTOM.
  - ALL CABLES SHALL BE FIXED TO PANEL BY GLAND.
  - TYPE OF THE MINIATURE CIRCUIT BREAKERS FOR FEEDING VARIOUS ELECTRICAL DEVICES IN DISTRIBUTION PANEL ARE AS FOLLOWS:
    - LIGHTING: TYPE "B" (MCB 10A)
    - SOCKET: TYPE "C" (MCB 16A)
    - SPLIT SOCKET: TYPE "C" (MCB 25A)
  - OUTDOOR LIGHTING AROUND BUILDING SHALL BE TURNED ON/OFF BY PHOTOCELL.
  - CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM EXCEPT BATTERY ROOM.
  - ALTHOUGH THE LOCATION OF EQUIPMENT HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE.
  - INDUSTRIAL BUILDING LIGHTING CABLE SHALL BE LAID IN HDG (HOT DIP GALVANIZED) CONDUIT AND IN NON INDUSTRIAL WIRE SHALL BE LAID IN PVC CONDUIT

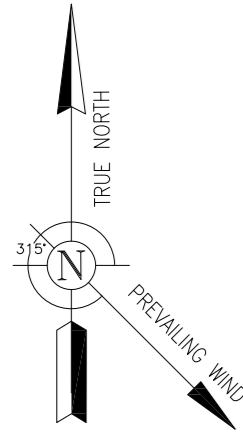
- LEGEND**
- 35W LOW POWER LED RECESSED TYPE, PS DIFFUSER WHITE BODY, THROUGH WIRE, IP42
  - FLUORESCENT FIXTURE 2x36w, Ex TYPE, INTERIOR REFLECTOR CAPACITOR & BALLAST, WALL MOUNTED, IP42
  - SAFETY LIGHTING, FLUORESCENT 1x8w, WITH 30 MINUTE BUILT-IN BATTERY PACK, IP42
  - WALL MOUNTED WITH GLASS DIFFUSER FOR 18 W COMPACT FLUORESCENT DOWN LIGHT, IP65
  - DOWN LIGHT LED WITH GLASS DIFFUSER, 15W, IP55
  - EXHAUST FAN 40W, IP42
  - ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP55
  - ONE POLE SWITCH, ONE WAY, 10A, 230V, IP65
  - 2 WAY SWITCH, SINGLE POLE, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE, MULTIPPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE, MULTIPPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP55
  - SOCKET INSTALLATION ON THE FLOOR OF THE ROOM WITH 2 SOCKET (N: Non-UPS, U: UPS), IP42
  - SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, FLUSH MOUNTED, IP42
  - 3PH-400V+N+E/63A SOCKET INSTALLED IN 110CM ABOVE F.F.L SURFACE MOUNTED, IP42
  - ELECTRICAL DISTRIBUTION PANEL GCS-400-EDP-CRM: CONTROL ROOM EMERGENCY LIGHTING PANEL, IP42
  - CU/PVC/PVC EMERGENCY LINE
  - METALLIC LIGHTING JUNCTION BOX,3WAY DUST & EXPLOSION PROOF LIGHTING JUNCTION BOX,3WAY, IP65

TAG NAME	NET AREA
101	AIR LOCK 16 sq.m
102	CORRIDOR 33 sq.m
103	CONTROL ROOM 59 sq.m
104	AUXILIARY ROOM 80 sq.m
105	UPS ROOM 18 sq.m
106	BATTERY ROOM 50 sq.m
107	ENGINEERING ROOM 16 sq.m
108	INSTRUMENT ROOM 16 sq.m
109	OFFICE 21 sq.m
110	IN-CHARGE + ARCHIVE 14 sq.m
111	PANTRY + DINING ROOM 20 sq.m
112	PRAYER ROOM 8 sq.m
113	LOCKER 8 sq.m
114	WC 13 sq.m
115	BOILERS 4 sq.m
116	BATHROOM 6 sq.m
117	JANITOR CLOSET 2 sq.m
118	HYAC CONTROL ROOM 9 sq.m

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-CNRAL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-CNRAL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

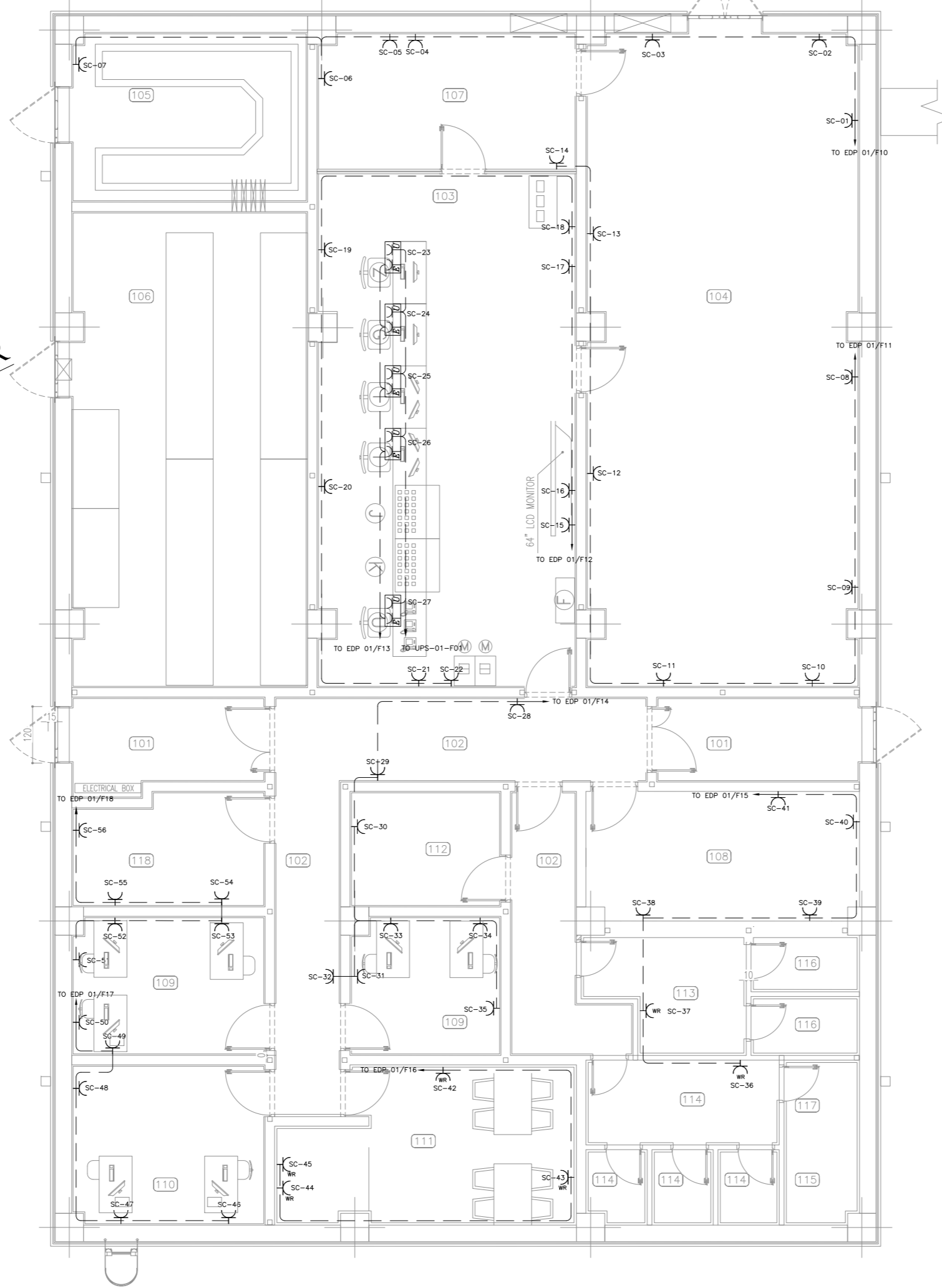


D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.Mehrshad	***	*****	***	*****	
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.Mehrshad	***	*****	***	*****	
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	
PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									
PROJECT NO.:	971020									
EPC CONTRACTOR:	HIRGAN ENERGY		EPD/EPC CONTRACTOR (GC):							
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO COMPANY							
DRAWING TITLE:			LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER							
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			APPROVED FOR CONSTRUCTION							
DATE			SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.	
AS SHOWN			A2		BK-GCS-PEDCO-120-EL-PY-0004		07 OF 15		D01	



D01

THIS DRAWING WILL BE FINALIZED LATER



LIGHTING FIXTURE NUMBERING PROCEDURE

- X-X-X
- SEQUENCE NUMBER
- LED: LIGHT EMITTED DIODE
- XF: EXPLOSION PROOF FLUORESCENT FIXTURE
- IL: INCANDESCENT LAMP
- CM: CEILING MOUNTED
- EX: EXIT LIGHT
- FAN: EXHAUST FAN
- HB: HIGH BAY
- MT: METAL HALID
- SC: SOCKET
- SP-SC: SPLIT SOCKET
- E: EMERGENCY

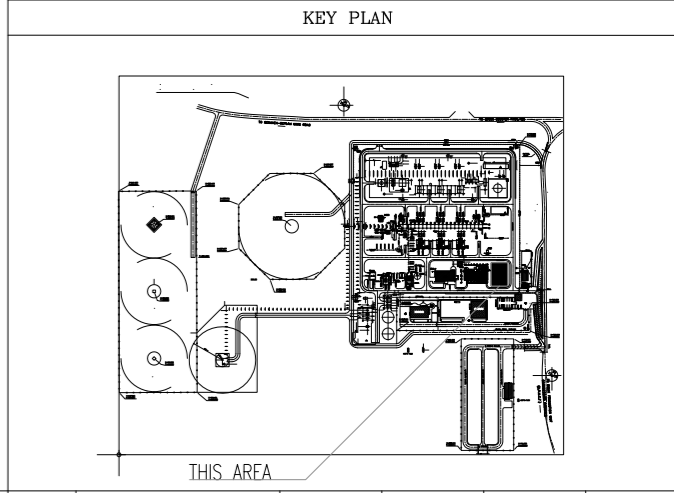
#	TYPE OF CABLE	CABLE TAG
1	3X2.5mm2, CU/PVC/PVC	a
2	3X4mm2, CU/PVC/PVC	b
3	4X2.5mm2, CU/PVC/PVC	c

TAG NAME	NET AREA
101	AIR LOCK 16 sq.m
102	CORRIDOR 33 sq.m
103	CONTROL ROOM 59 sq.m
104	AUXILIARY ROOM 80 sq.m
105	UPS ROOM 18 sq.m
106	BATTERY ROOM 50 sq.m
107	ENGINEERING ROOM 16 sq.m
108	INSTRUMENT ROOM 16 sq.m
109	OFFICE 21 sq.m
110	IN-CHARGE + ARCHIVE 14 sq.m
111	PANTRY + DINING ROOM 20 sq.m
112	PRAYER ROOM 8 sq.m
113	LOCKER 8 sq.m
114	WC 13 sq.m
115	BOILERS 4 sq.m
116	BATHROOM 6 sq.m
117	JANITOR CLOSET 2 sq.m
118	HVAC CONTROL ROOM 9 sq.m

- NOTES**
- THE MOUNTING HEIGHT OF THE FITTINGS ABOVE FINISHED FLOOR LEVEL SHALL BE AS FOLLOWS:
    - SOCKET OUTLET (GENERAL)= 30 Cm
    - SOCKET OUTLET (PANTRY)= 110 Cm
    - LIGHTING SWITCH =110 Cm
  - METALLIC BODY OF ALL EQUIPMENT SHOULD BE CONNECTED TO EARTH SYSTEM.
  - INDOOR DISTRIBUTION PANEL IS WALL MOUNTED & IP42
  - BOTTOM POINT OF WALL MOUNTED PANEL SHOULD BE 1.5m ABOVE FINISHED FLOOR.
  - COINCIDENCE FACTOR (CF) FOR CALCULATING TOTAL DEMANDED LOADS (TDL) CONSIDERED AS FOLLOWS:
    - FOR LIGHTING CIRCUIT CF=1
    - FOR SOCKET OUTLET = 0.5
  - CABLE ENTRY TO PANEL IS FROM BOTTOM.
  - ALL CABLES SHALL BE FIXED TO PANEL BY GLAND.
  - TYPE OF THE MINIATURE CIRCUIT BREAKERS FOR FEEDING VARIOUS ELECTRICAL DEVICES IN DISTRIBUTION PANEL ARE AS FOLLOWS:
    - LIGHTING TYPE "B" (MCB 10A)
    - SOCKET TYPE "C" (MCB 16A)
    - SPLIT SOCKET: TYPE "C" (MCB 25A)
  - OUTDOOR LIGHTING AROUND BUILDING SHALL BE TURNED ON/OFF BY PHOTOCELL.
  - CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM EXCEPT BATTERY AREA.
  - ALTHOUGH THE LOCATION OF EQUIPMENT HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE.
  - INDUSTRIAL BUILDING LIGHTING CABLE SHALL BE LAID IN HDG (HOT DIP GALVANIZED) CONDUIT AND IN NON INDUSTRIAL WIRE SHALL BE LAID IN PVC CONDUIT

- LEGEND**
- 35W LOW POWER LED RECESSED TYPE, PS DIFFUSER WHITE BODY, THROUGH WIRE, IP42
  - FLUORESCENT FIXTURE 2x36w, Ex TYPE, INTERIOR REFLECTOR CAPACITOR & BALLAST, WALL MOUNTED, IP42
  - SAFETY LIGHTING, FLUORESCENT 1x6w, WITH 30 MINUTE BUILT-IN BATTERY PACK, IP42
  - WALL MOUNTED WITH GLASS DIFFUSER FOR 18 W COMPACT FLUORESCENT DOWN LIGHT, IP65
  - DOWN LIGHT LED WITH GLASS DIFFUSER, 15W, IP55
  - EXHAUST FAN 40W, IP42
  - ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP55
  - 2 WAY SWITCH, SINGLE POLE, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE, MULTIPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP42
  - ONE POLE, MULTIPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP55
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  - SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, FLUSH MOUNTED, IP42
  - 3PH-400V+N+E/63A SOCKET INSTALLED IN 110CM ABOVE F.F.L SURFACE MOUNTED, IP42
  - ELECTRICAL DISTRIBUTION PANEL GCS-400-EDP-CRM: CONTROL ROOM EMERGENCY LIGHTING PANEL, IP42
  - CU/PVC EMERGENCY LINE
  - METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & EXPLOSION PROOF LIGHTING JUNCTION BOX, 3WAY, IP65

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-CNRAL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-CNRAL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002



REV.	DESCRIPTION	BY	DATE	BY	DATE
***	*****	**	*****	**	*****
REV.	DESCRIPTION	BY	DATE	BY	DATE
REV.	DESCRIPTION	BY	DATE	BY	DATE
REV.	DESCRIPTION	BY	DATE	BY	DATE

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

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

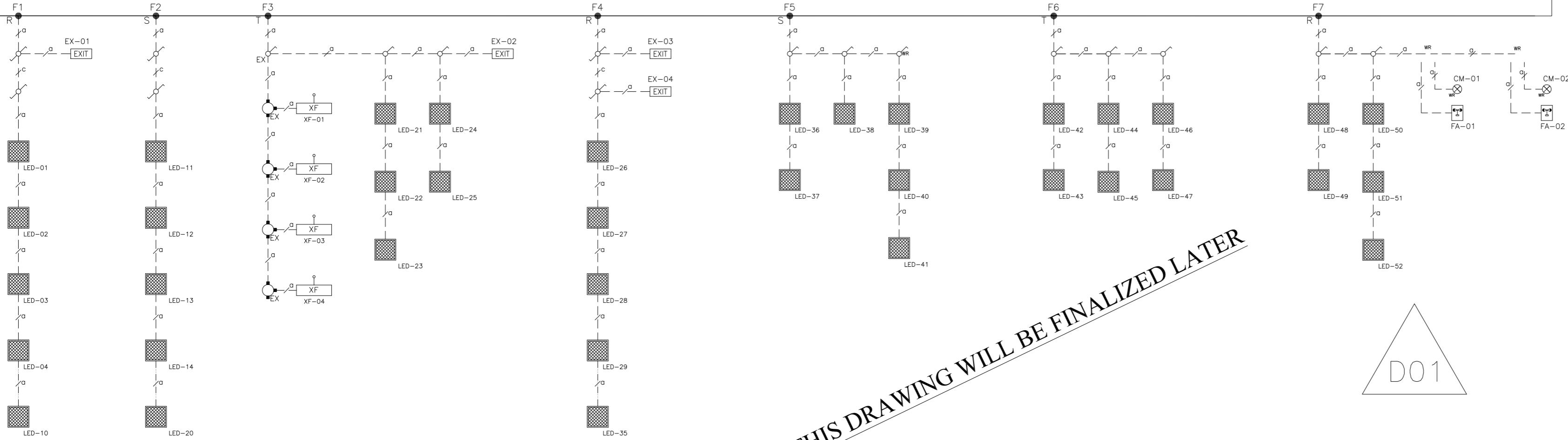
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A2	BK-GCS-PEDCO-120-EL-PY-0004	08 OF 15	D01	053-073-9184	F	2	P	709049	08 OF 15

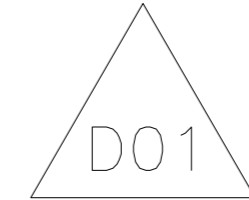


EDP-01

GCS-400-EDP-CRM (CONTROL ROOM EMERGENCY LIGHTING PANEL)

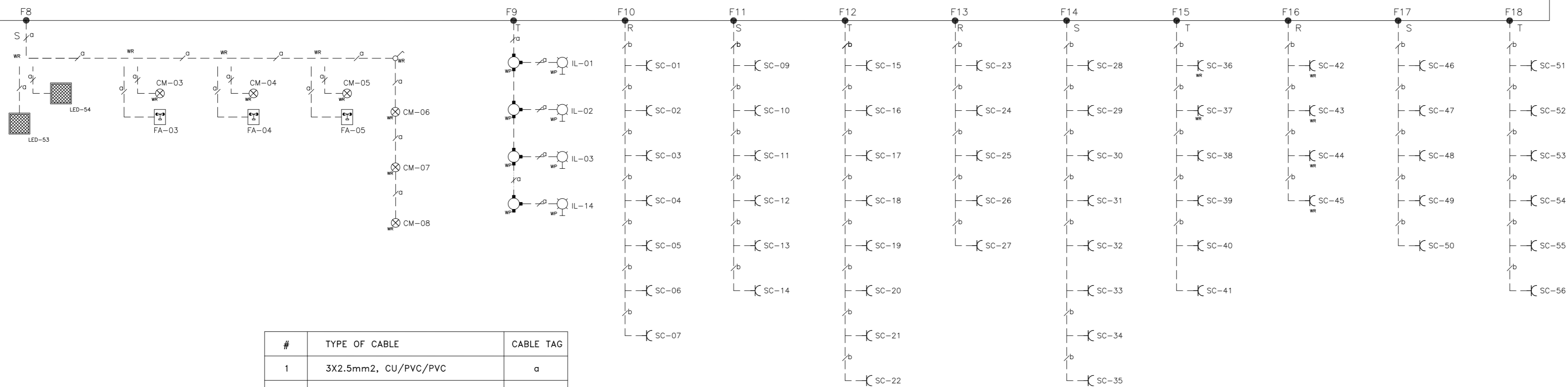


THIS DRAWING WILL BE FINALIZED LATER



EDP-01

GCS-400-EDP-CRM (CONTROL ROOM EMERGENCY LIGHTING PANEL)



#	TYPE OF CABLE	CABLE TAG
1	3X2.5mm2, CU/PVC/PVC	a
2	3X4mm2, CU/PVC/PVC	b
3	4X2.5mm2, CU/PVC/PVC	c

NOTES

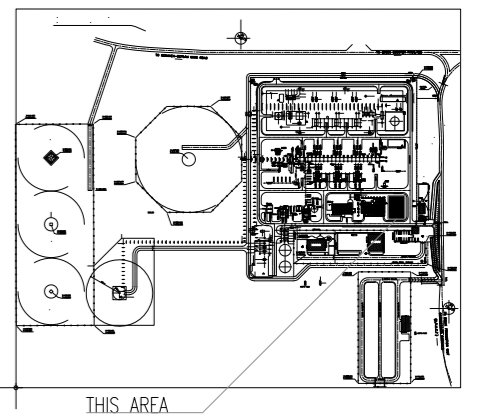
- THE MOUNTING HEIGHT OF THE FITTINGS ABOVE FINISHED FLOOR LEVEL SHALL BE AS FOLLOWS:
  - SOCKET OUTLET (GENERAL)= 30 Cm
  - SOCKET OUTLET (PANTRY)= 110 Cm
  - LIGHTING SWITCH =110 Cm
- METALLIC BODY OF ALL EQUIPMENT SHOULD BE CONNECTED TO EARTH SYSTEM.
- INDOOR DISTRIBUTION PANEL IS WALL MOUNTED & IP42
- BOTTOM POINT OF WALL MOUNTED PANEL SHOULD BE 1.5m ABOVE FINISHED FLOOR.
- COINCIDENCE FACTOR (CF) FOR CALCULATING TOTAL DEMANDED LOADS (TDL) CONSIDERED AS FOLLOWS:
  - FOR LIGHTING CIRCUIT CF=1
  - FOR SOCKET OUTLET = 0.5
- CABLE ENTRY TO PANEL IS FROM BOTTOM.
- ALL CABLES SHALL BE FIXED TO PANEL BY GLAND.
- TYPE OF THE MINIATURE CIRCUIT BREAKERS FOR FEEDING VARIOUS ELECTRICAL DEVICES IN DISTRIBUTION PANEL ARE AS FOLLOWS:
  - LIGHTING TYPE "B" (MCB 10A)
  - SOCKET TYPE "C" (MCB 16A)
  - SPLIT SOCKET TYPE "C" (MCB 25A)
- OUTDOOR LIGHTING AROUND BUILDING SHALL BE TURNED ON/OFF BY PHOTOCELL.
- CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM EXCEPT BATTERY ROOM.
- ALTHOUGH THE LOCATION OF EQUIPMENT HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE.
- INDUSTRIAL BUILDING LIGHTING CABLE SHALL BE LAID IN HDG (HOT DIP GALVANIZED) CONDUIT AND IN NON INDUSTRIAL WIRE SHALL BE LAID IN PVC CONDUIT

LEGEND

- 35W LOW POWER LED RECESSED TYPE, PS DIFFUSER WHITE BODY, THROUGH WIRE, IP42
- FLUORESCENT FIXTURE 2x36w, EX TYPE, INTERIOR REFLECTOR CAPACITOR & BALLAST, WALL MOUNTED, IP42
- SAFETY LIGHTING, FLUORESCENT 1x6w, WITH 30 MINUTE BUILT-IN BATTERY PACK, IP42
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- ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP42
- ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP55
- ONE POLE SWITCH, ONE WAY, 10A, 230V, IP65
- 2 WAY SWITCH, SINGLE POLE, 10A, 230V, FLUSH MOUNTED, IP42
- ONE POLE, MULTIPPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP42
- ONE POLE, MULTIPPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP55
- SOCKET INSTALLATION ON THE FLOOR OF THE ROOM WITH 2 SOCKET (N: Non-UPS, U: UPS), IP42
- SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, FLUSH MOUNTED, IP42
- 3PH-400V+N+E/63A SOCKET INSTALLED IN 110CM ABOVE F.F.L SURFACE MOUNTED, IP42
- ELECTRICAL DISTRIBUTION PANEL GCS-400-EDP-CRM: CONTROL ROOM EMERGENCY LIGHTING PANEL, IP42
- CU/PVC/PVC EMERGENCY LINE
- METALLIC LIGHTING JUNCTION BOX,3WAY DUST & EXPLOSION PROOF LIGHTING JUNCTION BOX,3WAY, IP65

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

KEY PLAN



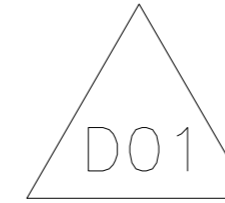
<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>DATE</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td>D01</td> <td>MAY.2023</td> <td>IPA</td> <td></td> <td>H.SHAKIBA</td> <td>M.Mehrshad</td> </tr> <tr> <td>D00</td> <td>MAY.2022</td> <td>IPC</td> <td></td> <td>H.SHAKIBA</td> <td>M.Mehrshad</td> </tr> </table>	REV.	DATE	BY	DATE	BY	DATE	D01	MAY.2023	IPA		H.SHAKIBA	M.Mehrshad	D00	MAY.2022	IPC		H.SHAKIBA	M.Mehrshad	<p>PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION</p> <p>PROJECT NO.: 971020</p> <p>EPC CONTRACTOR: HIRGAN ENERGY</p> <p>EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY</p> <p>DRAWING TITLE: LIGHTING &amp; SMALL POWER LAYOUT FOR BUILDING &amp; SHELTER</p>	<p>DATE</p> <p>SCALE</p> <p>DRAWING BY</p> <p>CHECKED BY</p> <p>PROJECT ENG.</p> <p>NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED</p> <p>APPROVED FOR CONSTRUCTION</p> <p>BY: _____ DATE: _____</p> <table border="1"> <tr> <th>BUDGET REF.</th> <th>LOCATION</th> <th>SIZE CLASS</th> <th>SERIAL NO.</th> <th>SHEET</th> <th>REVISION</th> </tr> <tr> <td>AS SHOWN</td> <td>A2</td> <td>BK-GCS-PEDCO-120-EL-PY-0004</td> <td>09 OF 15</td> <td>D01</td> <td>053-073-9184</td> </tr> </table>	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION	AS SHOWN	A2	BK-GCS-PEDCO-120-EL-PY-0004	09 OF 15	D01	053-073-9184
REV.	DATE	BY	DATE	BY	DATE																											
D01	MAY.2023	IPA		H.SHAKIBA	M.Mehrshad																											
D00	MAY.2022	IPC		H.SHAKIBA	M.Mehrshad																											
BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION																											
AS SHOWN	A2	BK-GCS-PEDCO-120-EL-PY-0004	09 OF 15	D01	053-073-9184																											

# BILL OF MATERIAL

ITEM	EQUIPMENT	SYMBOL	QTY	SPARE	DESCRIPTION
1	LED		54	7	35W LOW POWER LED RECESSED TYPE, PS DIFFUSER , WHITE BODY, IP42
2	FLUORESCENT FIXTURE EXPULSION PROOF		4	1	FLUORESCENT FIXTURE 2x36w, Ex TYPE, INTERIOR REFLECTOR CAPACITOR & BALLAST. WALL MOUNTED, IP42
3	INCANDESCENT LAMP		14	2	WALL MOUNTED WITH GLASS DIFFUSER FOR 18 W COMPACT FLUORESCENT DOWN LIGHT, BULKHEAD, IP65
4	CEILING MOUNTED		8	2	DOWN LIGHT LED WITH GLASS DIFFUSER, 15W, IP55
5	JUNCTION BOX		14	3	METALLIC LIGHTING JUNCTION BOX,3WAY DUST & WEATHER PROOF TYPE LIGHTING JUNCTION BOX,3WAY, IP65
6	JUNCTION BOX		8	2	METALLIC LIGHTING JUNCTION BOX,3WAY DUST & EXPULSION PROOF LIGHTING JUNCTION BOX,3WAY, IP65
7	EXIT LIGHT		5	1	SAFETY LIGHTING, FLUORESCENT 1x8w, WITH 30 MINUTE BUILT-IN BATTERY PACK, IP42
8	EXHAUST FAN		5	1	EXHAUST FAN 40W, IP42
9	ONE POLE,ONE GANG		9	2	ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP42
10	ONE POLE,ONE GANG		2	1	ONE POLE SWITCH, ONE WAY, 10A, 230V, FLUSH MOUNTED, IP55
11	ONE POLE,ONE GANG		1	-	ONE POLE SWITCH, ONE WAY, 10A, 230V, SURFACE MOUNTED, EXPLOSION PROOF, IP65
12	ONE POLE,MULTI POSITION		6	1	ONE POLE, MULTIPOSITION SWITCH, 10A, 230V, FLUSH MOUNTED, IP55
13	ONE POLE, TWO WAY		6	1	2 WAY SWITCH, SINGLE POLE, 10A, 230V, FLUSH MOUNTED, IP42
14	SOCKET OUTLET		50	7	SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, FLUSH MOUNTED, IP42
15	SOCKET OUTLET		6	3	SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, FLUSH MOUNTED, IP55
16	SOCKET OUTLET		5	1	SOCKET OUTLET (POWER) WITH SINGLE POLE SWITCH 230V, 25A, SURFACE MOUNTED, IP42
17	DP		1	-	NORMAL DISTRIBUTION PANEL, IP42
18	CABLE 3X2.5mm2	—	450 m	90 m	CU/PVC/PVC
19	CABLE 3X4mm2	—	280 m	60 m	CU/PVC/PVC
20	CABLE 4X2.5mm2	—	70	20	CU/PVC/PVC
21	TRAY & LADDER	-	AS REQ.	AS REQ.	-
22	CONDUIT	-	AS REQ.	AS REQ.	-

THIS DRAWING WILL BE FINALIZED LATER

NISOC OFFICE BUILDING MTO

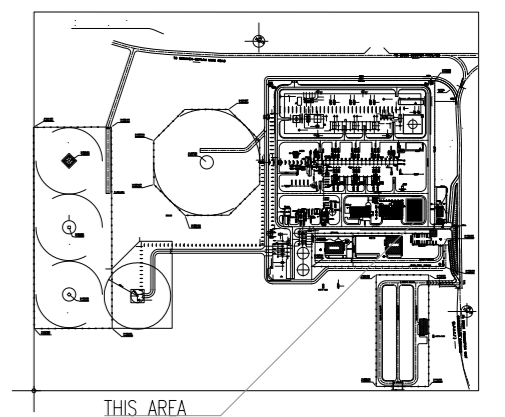


NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

KEY PLAN



REV.	DATE	DESCRIPTION	BY	DATE	CHECKED	BY	DATE	REV. APPR.
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.Mehrshad	**	**	**
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.Mehrshad	**	**	**

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

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY COMPANIES

EPD/EPC CONTRACTOR (GC): PEDCO

PETROIRAN DEVELOPMENT COMPANY

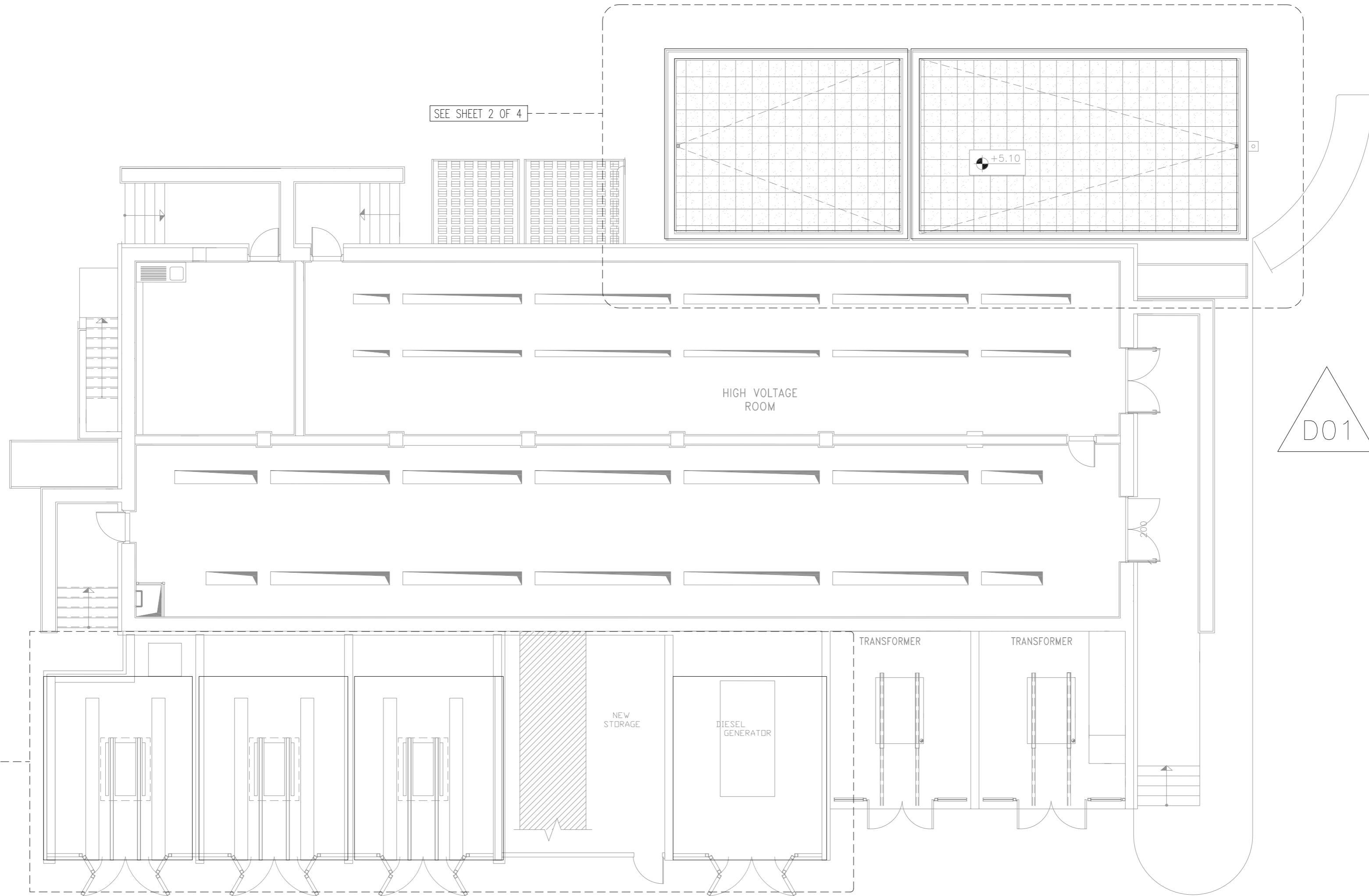
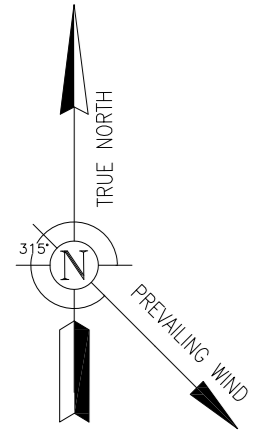
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A2	BK-GCS-PEDCO-120-EL-PY-0004	10 OF 15	D01	053-073-9184	F	2	P	709049	10 OF 15



GENERAL PLAN OF GCS SWITCHGEAR

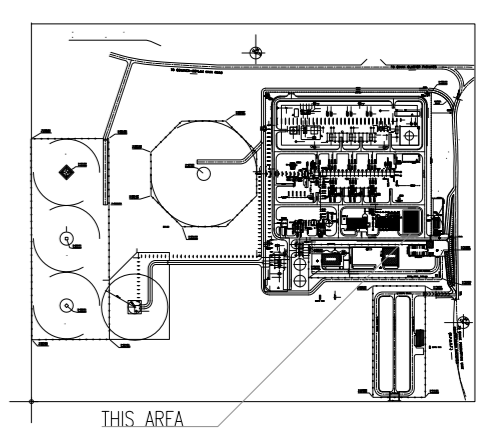
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LEGEND

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-CNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-CNRL-PEDCO-000-EL-DW-0003
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UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-DW-0008
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ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

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HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002

KEY PLAN



REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE
D01	MAY.2023	IFA	H.SHAKIBA	M.FAKHARIAN	M.Mehrabad	***					
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.Mehrabad	***					

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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PROJECT NO.: 971020

EPD/EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY

DATE: SCALE: DRAWING BY: CHECKED BY: PROJECT ENG.

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
AS SHOWN	A2	BK-GCS-PEDCO-120-EL-PY-0004	11 OF 15	D01	053-073-9184	F	2	P	709049	11 OF 15	D01

NOTES

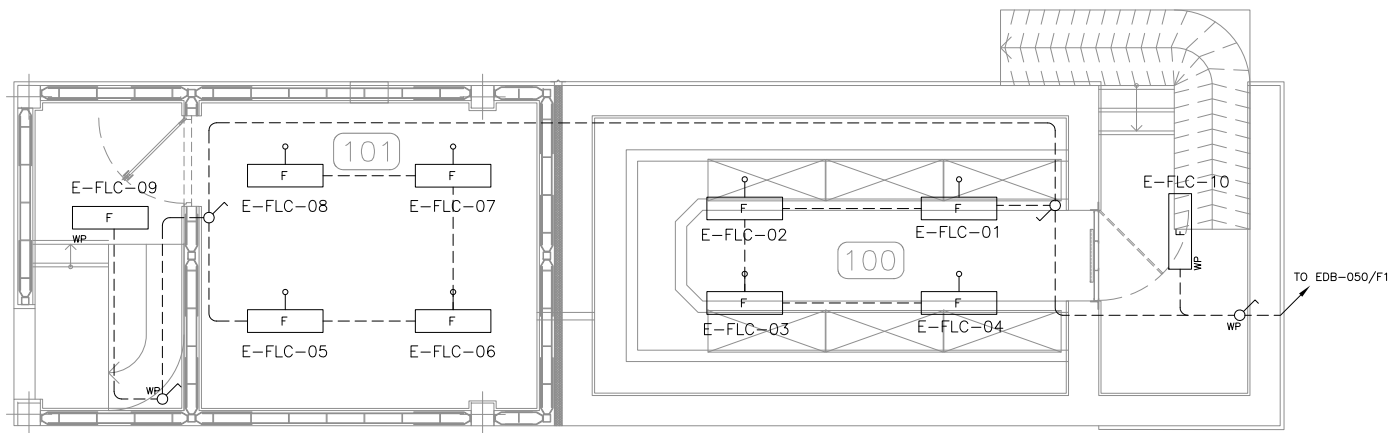
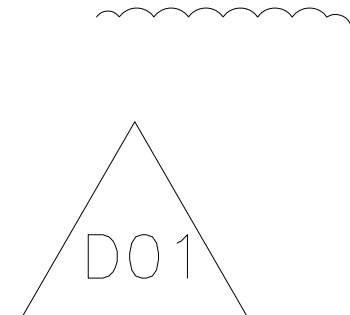
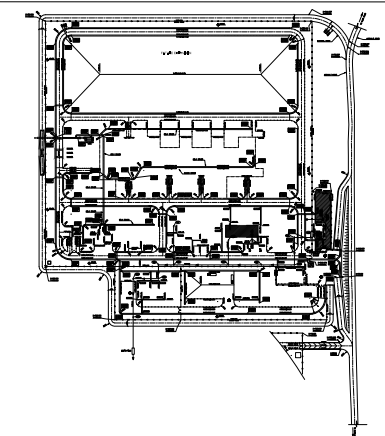
- 1- THE MOUNTING HEIGHT OF THE FITTINGS ABOVE FINISHED FLOOR  
 - SOCKET OUTLET (GENERAL)= 30 Cm  
 - SOCKET OUTLET (PANTRY)= 110 Cm
- 2- METALLIC BODY OF ALL EQUIPMENT SHOULD BE CONNECTED TO
- 3- INDOOR DISTRIBUTION PANEL IS WALL MOUNTED & IP42
- 4- BOTTOM POINT OF WALL MOUNTED PANEL SHOULD BE 1.5m
- 5- COINCIDENCE FACTOR (CF) FOR CALCULATING TOTAL DEMANDED LOADS (TDL) CONSIDERED AS FOLLOWS:
- 6- CABLE ENTRY TO PANEL IS FROM BOTTOM.
- 7- ALL CABLES SHALL BE FIXED TO PANEL BY GLAND.
- 8- TYPE OF THE MINATURE CIRCUIT BREAKERS FOR FEEDING VARIOUS ELECTRICAL DEVICES IN DISTRIBUTION PANEL ARE  
 - SPLIT SOCKET: TYPE "C" (MCB 25A)
- 9- OUTDOOR LIGHTING AROUND BUILDING SHALL BE TURNED
- 10- CABLING SHALL BE DONE IN OPEN CONDUIT SYSTEM EXCEPT BATTERY ROOM.
- 11- ALTHOUGH THE LOCATION OF EQUIPMENT HAS BEEN SHOWN, BUT AS SYMBOLS ARE NOT TO SCALE, MOST SUITABLE POSITIONS ARE TO BE CHOSEN AT SITE.
- 12- INDUSTRIAL BUILDING LIGHTING CABLE SHALL BE LAID IN HDG (HOT DIP GALVANIZED) CONDUIT AND IN NON INDUSTRIAL WIRE SHALL BE LAID IN PVC CONDUIT
- 13- SIZE AND IN NON INDUSTRIAL WIRE SHALL BE LAID IN PVC CONDUIT

LEGEND

- SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, IP42
- SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, WEATHER PROOF TYPE IP55
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- METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & MOISTURE PROOF LIGHTING JUNCTION BOX, 3WAY, IP42
- CU/PVC/PVC NORMAL LINE
- CU/PVC/PVC EMERGENCY LINE

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002

KEY PLAN



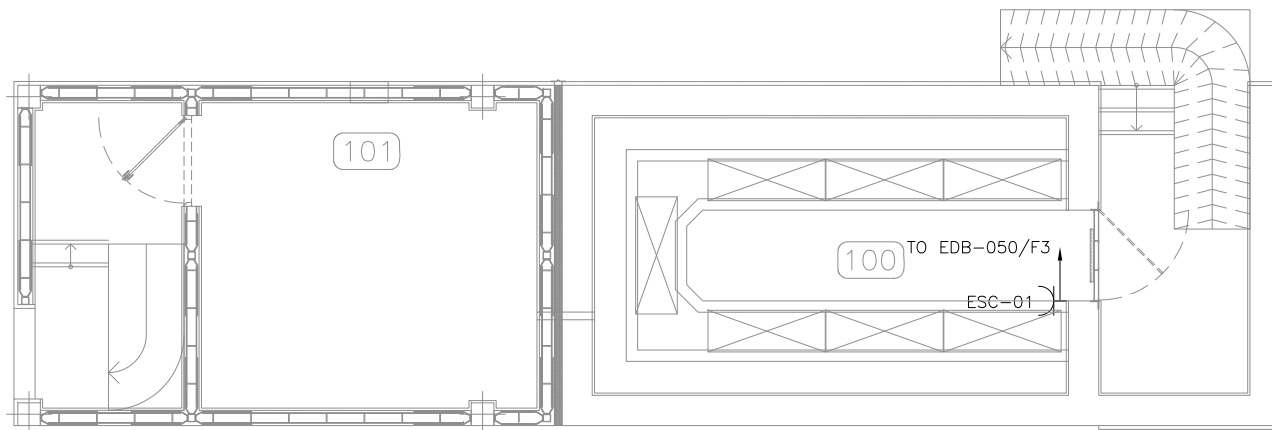
LIGHTING FIXTURE NUMBERING PROCEDURE

X-X-X

- SEQUENCE NUMBER
- FLC: FLUORESCENT LIGHTING LAMP
- FPD: FLUORESCENT PRIMATE DIFFUSER LAMP
- XF: EXPLOSION PROOF FLUORESCENT FIXTURE
- IL: INCANDESCENT LAMP
- CM: CEILING MOUNTED
- EX: EXIT LIGHT
- FAN: EXHAUST FAN
- HB: HIGH BAY
- MT: METAL HALID
- SC: SOCKET
- SP-SC: SPLIT SOCKET
- N: NORMAL
- E: EMERGENCY

SPACE TAG	AREA
100	32m <sup>2</sup> + 12m <sup>2</sup>
101	22m <sup>2</sup> + 10m <sup>2</sup>
102	22m <sup>2</sup> + 22m <sup>2</sup>
103	22m <sup>2</sup>
TOTAL	142m <sup>2</sup>

SC.1:50 2 CAPACITOR BANK AND CO2 ROOM



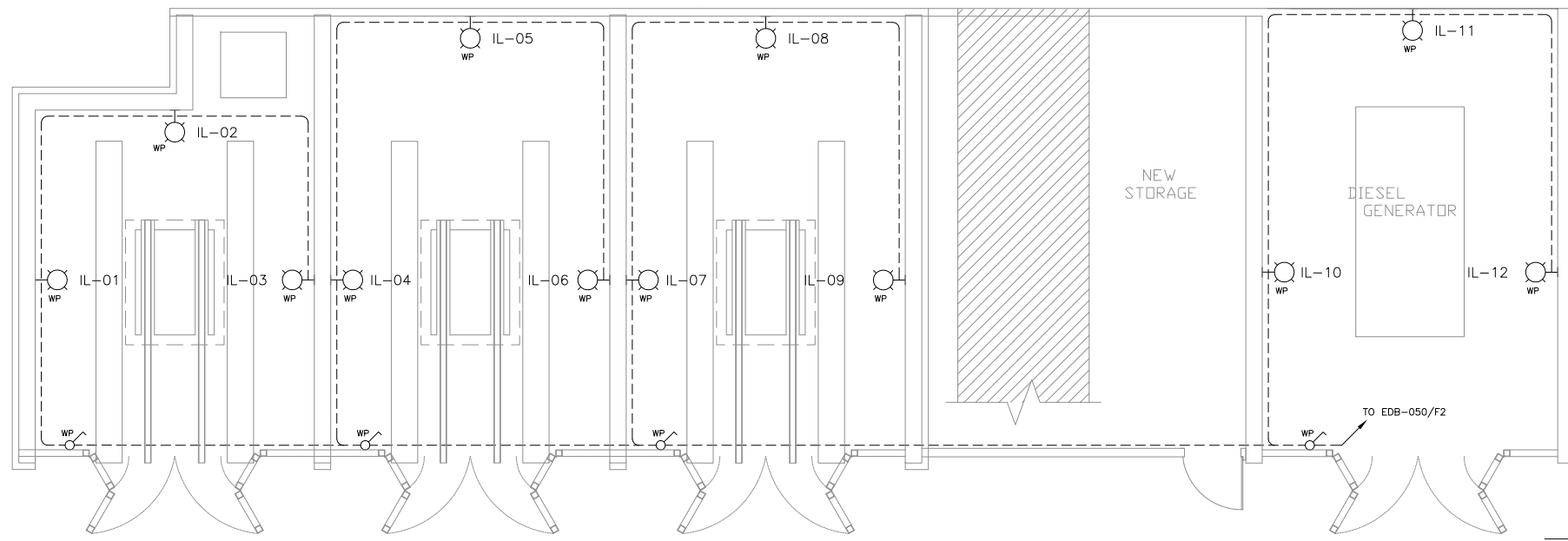
CO2 AND CAPACITOR ROOMS PLAN

REV.	DATE	DESCRIPTION	BY	DATE	CHECKED	REV. APPR.
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **

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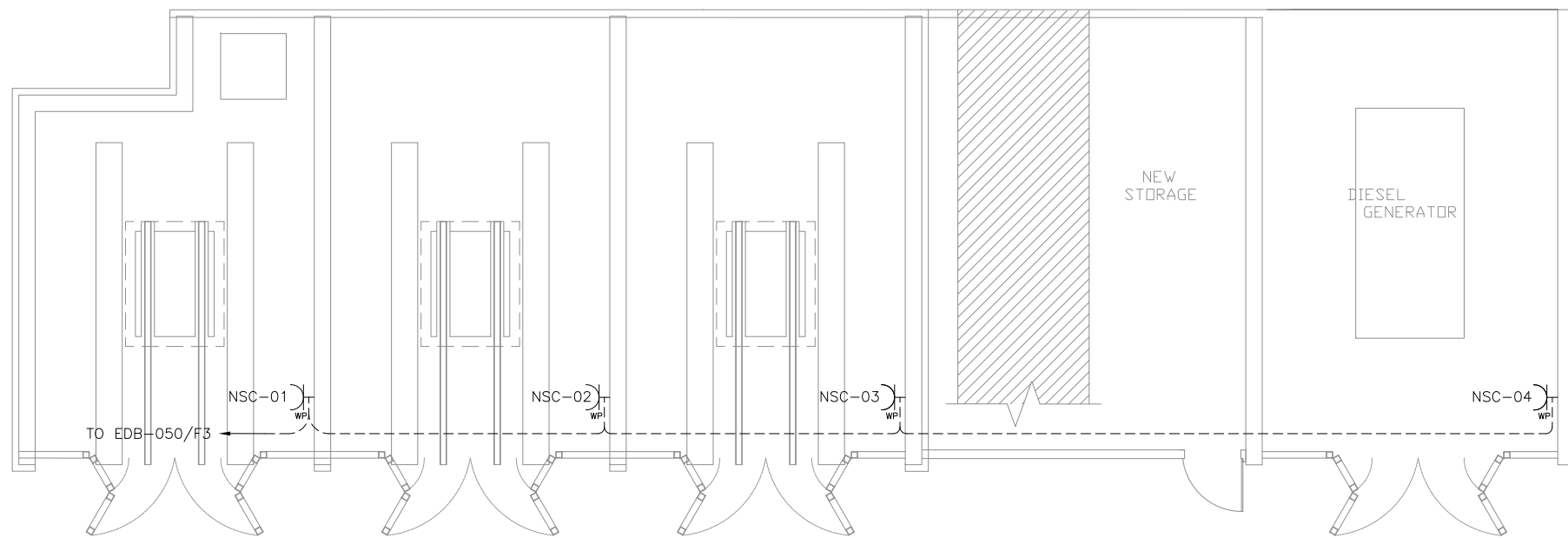
PROJECT NAME:		BINAK OILFIELD DEVELOPMENT GENERAL	
PROJECT NO.:		971020	
EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):		
			PETROIRAN DEVELOPMENT COMPANY
DRAWING TITLE:		LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER	
SCALE	SIZE	DRAWING NO.	SHEET NO.
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0004	12 OF 15

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION	BY:	DATE:			
BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	2	P	709049	12 OF 15



LIGHTING FIXTURE NUMBERING PROCEDURE

SC.1:50 **3** TRANSFORMERS ROOMS



TRANSFORMERS ROOMS

X-X-X

- SEQUENCE NUMBER
- FLC: FLUORESCENT LIGHTING LAMP
- FPD: FLUORESCENT PRIMATE DIFFUSER LAMP
- XF: EXPLOSION PROOF FLUORESCENT FIXTURE
- IL: INCANDESCENT LAMP
- CM: CEILING MOUNTED
- EX: EXIT LIGHT
- FAN: EXHAUST FAN
- HB: HIGH BAY
- MT: METAL HALID
- SC: SOCKET
- SP-SC: SPLIT SOCKET
- N: NORMAL
- E: EMERGENCY

NOTES

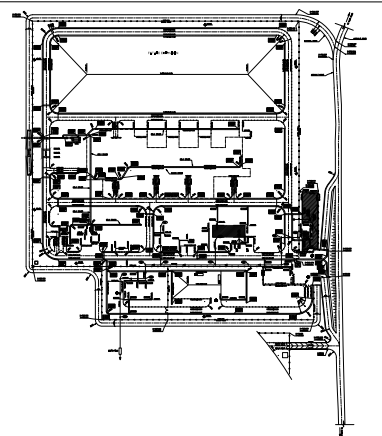
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- CU/PVC/PVC NORMAL LINE
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KEY PLAN



REV.	DATE	DESCRIPTION	BY	DATE	CHECKED	REV. APPR.
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **

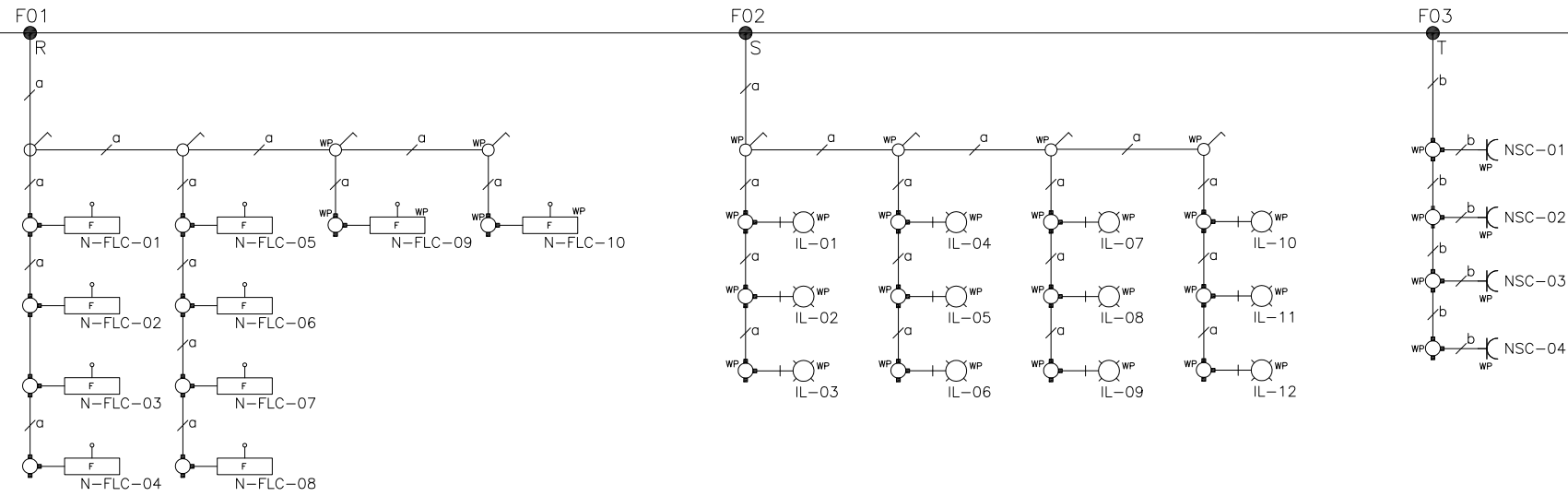
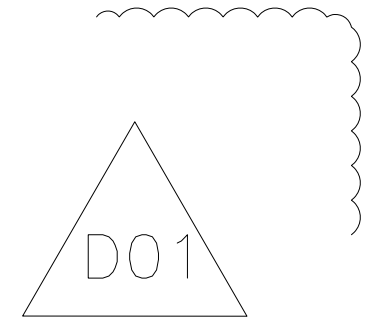
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PROJECT NAME:		BINAK OILFIELD DEVELOPMENT GENERAL	
PROJECT NO.:		971020	
EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):		
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	PEDCO	PETROIRAN DEVELOPMENT COMPANY	
DRAWING TITLE:		LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
APPROVED FOR CONSTRUCTION		BY:	
SCALE	SIZE	DRAWING NO.	SHEET NO.
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0004	13 OF 15

REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
D01	053-073-9184	F	2	P	709049	13 OF 15

# EDB-050



#	TYPE OF CABLE	CABLE TAG
1	3X2.5mm <sup>2</sup> , CU/PVC/PVC	a
2	3X4mm <sup>2</sup> , CU/PVC/PVC	b

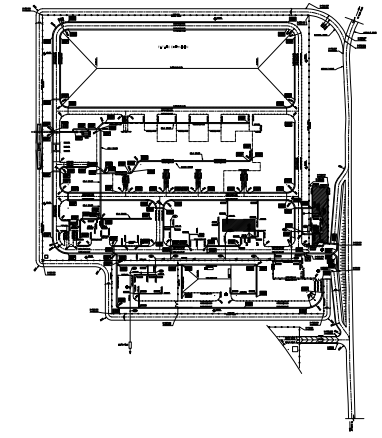
## NOTES

## LEGEND

- SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, IP42
- SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, WEATHER PROOF TYPE IP55
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ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002

## KEY PLAN



NISOC OFFICE BUILDING MTO

REV.	DESCRIPTION	BY	DATE	CHECKED	REV. APPR.	
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **

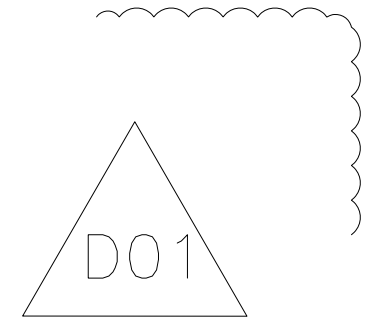
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL  
 PROJECT NO.: 971020  
 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES  
 EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY  
 BINAK OILFIELD DEVELOPMENT GENERAL

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER  
 NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION	
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0004	14 OF 15	D01	053-073-9184	F	2	P	709049	14 OF 15	D01

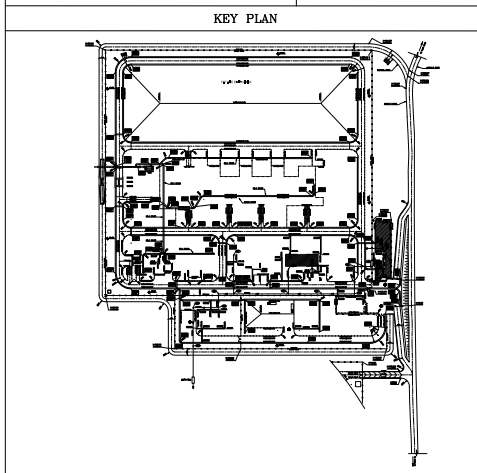


MTO FOR GENERAL PLAN OF GCS SWITCHGEAR					
ITEM	EQUIPMENT	SYMBOL	QTY	SPARE	DESCRIPTION
1	FLUORESCENT FIXTURE		8	3	SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, THROUGH WIRE TYPE, IP42
2	FLUORESCENT FIXTURE		2	1	SUSPENDED CEILING MOUNTED FLUORESCENT, 2x36 W WITH LOUVER, CAPACITOR & BALLAST, WEATHER PROOF TYPE, IP65
3	INCANDESCENT LAMP		12	2	WALL MOUNTED WITH GLASS DIFFUSER FOR 18 W COMPACT FLUORESCENT DOWN LIGHT, BULKHEAD, WEATHER PROOF TYPE, IP65
4	SOCKET OUTLET		4	1	SOCKET OUTLET POWER WITH SINGLE PHASE 230V, 16A, SURFACE MOUNTED WEATHER PROOF TYPE, IP65
5	ONE POLE, ONE GANG		2	1	ONE POLE SWITCH, ONE WAY, 10A, 230V, SURFACE MOUNTED, IP42
6	ONE POLE, ONE GANG		6	2	ONE POLE SWITCH, ONE WAY, 10A, 230V, SURFACE MOUNTED, WEATHER PROOF TYPE, IP42
7	JUNCTION BOX		8	3	METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & MOISTURE PROOF LIGHTING JUNCTION BOX, 3WAY, IP42
8	JUNCTION BOX		16	3	METALLIC LIGHTING JUNCTION BOX, 3WAY DUST & WEATHER PROOF TYPE LIGHTING JUNCTION BOX, 3WAY, IP65
9	CABLE 3X2.5mm <sup>2</sup>		160 m	50 m	CU/PVC/PVC
10	CABLE 3X4mm <sup>2</sup>		60 m	20 m	CU/PVC/PVC
11	CABLE 4X2.5mm <sup>2</sup>	-	AS REQ.	AS REQ.	CU/PVC/PVC
12	TRAY & LADDER	-	AS REQ.	AS REQ.	-
13	CONDUIT	-	AS REQ.	AS REQ.	-

NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR LIGHTING & SMALL POWER SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0007
CALCULATION NOTE FOR INDOOR AREA LIGHTING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0002
TYPICAL INSTALLATION DETAILS & NOTES FOR LIGHTING SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0003
DISTRIBUTION AND LIGHTING PANELS SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0004
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0008
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING	BK-GCS-PEDCO-120-AR-PY-0001
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-PI-PY-0002



REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
D01	MAY.2023	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL  
 PROJECT NO.: 971020

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

DRAWING TITLE: LIGHTING & SMALL POWER LAYOUT FOR BUILDING & SHELTER

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0004	15 OF 15	D01	053-073-9184	F	2	P	709049	15 OF 15