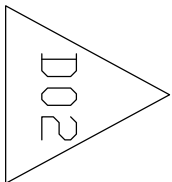


NOTES

DOCUMENT TITLE ♦♦








F&G LOCATION LAYOUT-EXTENSION OF BINAK B/C MANIFOLD

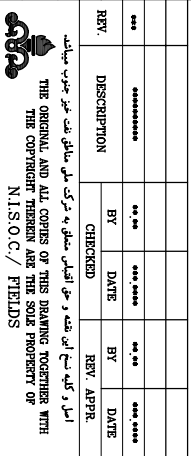
[illegible]



NOTES	
1.	ALL DIMENSIONS ARE IN METER.
2.	MCA SHALL BE WALL MOUNTED AT HEIGHT OF 1.4m ABOVE FINISHED LEVEL.
3.	SMOKE DETECTOR, HEAT AND HYDROGEN GAS DETECTOR SHALL BE INSTALLED ON CEILING.
4.	ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
5.	BELL SHALL BE INSTALLED ON WALL.
6.	HYDROGEN GAS DETECTORS TO BE CONSIDERED ADDRESSABLE TYPE.
7.	SMOKE DETECTOR WITH REMOTE INDICATOR FOR CABLE TRENCH.
8.	FACP SHALL BE CONSIDERED ADDRESSABLE TYPE.
9.	DELETED.
10.	IN ACCORDANCE TO DOC "HAZARDOUS AREA CLASSIFICATION LAYOUT - EXTENSION OF BUNK B/C MAINFOLD" AND THE SAFE AREA OF THE BUILDING, OUTDOOR EQUIPMENT SHALL NOT BE EX. TYPE.
11.	SMOKE DETECTOR WITH REMOTE INDICATOR FOR FALSE CEILING.
12.	ONE TONE TO BE SELECTED FOR HORN AND BEACON FOR FIRE DETECTION (COMMUNIS).
13.	ONE COLOR TO BE SELECTED FOR BEACONS.
14.	RED FOR FIRE.
14.	MAX. COVERAGE AREA FOR SMOKE DETECTORS HAS BEEN CONSIDERED 50 m ² AND FOR HEAT DETECTORS HAS BEEN CONSIDERED 37m ² .
15.	MAX. DISTANCE BETWEEN TWO SMOKE DETECTORS HAS BEEN CONSIDERED 10m.

LEGEND

 SMOKE DETECTOR  MANUAL CALL POINT  H ₂ HYDROGEN GAS DETECTOR  HEAT DETECTOR	 RED BEACON  HORN  BELL
REFERENCE DRAWING SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES FIRE & GAS DETECTION DESIGN CRITERIA PLANT FLEM DRAWING-EXTENSION OF BNAE B/C MANUFD	Dlg. No. BR-GNDA-PRDCC-004-14-BF-0004 BR-GCS-PRDCC-125-14-DC-0001 BR-W079-PRDCC-110-21-PT-0001



- ## CONTROL BUILDING AREA

[illegible]

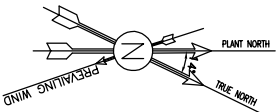


NOTES

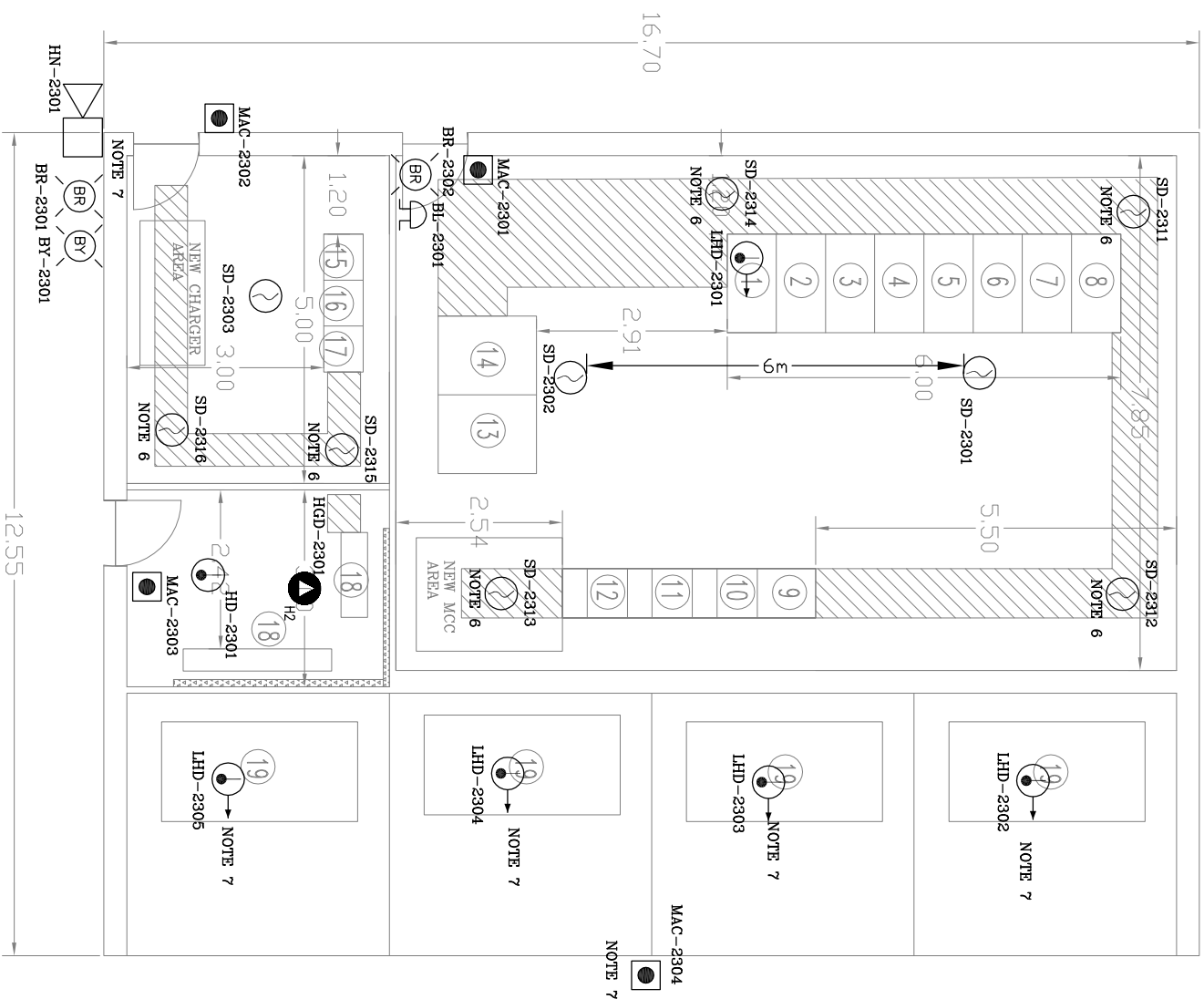
1. ALL DIMENSIONS ARE IN METERS.
2. MGA SHALL BE WALL MOUNTED AT HEIGHT OF 1.4m ABOVE FINISHED LEVEL.
3. SMOKE DETECTOR, HEAT AND HYDROGEN GAS DETECTOR SHALL BE INSTALLED ON CEILING.
4. ALL INSTALLATION ELEVATION SHALL BE ADVISED AT SITE/WORK ORDER.
5. HYDROGEN GAS DETECTORS TO BE CONSIDERED ADDRESSABLE TYPE.
6. IN ADDITION TO DOC HAZARDOUS AREA MOUNTING, DETECTOR SHALL BE MOUNTED ON TOP OF DRINK B/C MOUNTED, AND THE SAFE AREA OF THE BUILDING, OUTDOOR EQUIPMENT SHALL NOT BE EX. TYPE.
7. DIFFERENT TONES TO BE SELECTED FOR HORN AND ALARM (NON-CONTINUOUS) AND ONE FOR FIRE DETECTION/FLAMMABLE & TOXIC GAS DETECTION HIGH ALARM (CONTINUOUS).
8. 2 DIFFERENT COLORS TO BE SELECTED FOR BEACONS.
9. RED FOR FIRE
10. YELLOW FOR FLAMMABLE GAS DETECTION
11. MGA COVERAGE AREA FOR SMOKE DETECTORS HAS BEEN CONSIDERED 50 m² AND FOR HEAT DETECTORS HAS BEEN CONSIDERED 37m².
12. MGA DISTANCE BETWEEN TWO SMOKE DETECTORS HAS BEEN CONSIDERED 10m.

[illegible]

BATTERY ROOM AREA



TOTALLY
REVISED



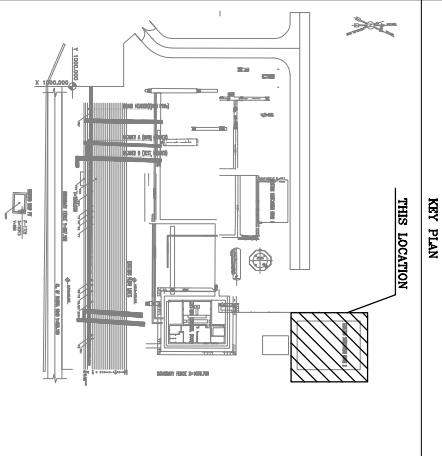
- ① Existing Transformer 500 KA
- ② Existing Capacitor 200 KVAR
- ③ Existing Motor 90KW P3
- ④ Existing PT Panel
- ⑤ Existing Incoming
- ⑥ Existing Equipped Spare (600 KW)
- ⑦ Existing Motor 525KW (P2)
- ⑧ Existing Motor 600KW (P4)
- ⑨ Existing LV MCC Panel
- ⑩ Existing FEEDER (Spare, Spare 100A , Equipped Spare (25kw/100A), Capacitor Bank(150 KVAR), P3(55KW))
- ⑪ Existing FEEDER (Battery Capacitor "A" (25A), Spare (100A), Equipped Spare (25kw/100A), Equipped Spare (55KW))
- ⑫ Existing FEEDER (Battery Charger "A" (25A), T0 Switchgear Room (63A), Pump House FLP(63A), Spare (100A), 3.3 Switchgear MCC (60A), Equipped Spare (25KW, 100A), Existing 440V MCC)
- ⑬ Existing CB 100KVAR 3.3KV (First Step)
- ⑭ Existing CB 100KVAR 3.3KV (Second Step)
- ⑮ Existing 110 VDC – 25A Battery charger-A
- ⑯ Existing 110 VDC – 25A Distribution Panel
- ⑰ Existing 110 VDC – 25A Battery charger-B
- ⑱ Existing / New Battery Room, Including 110VDC Existing & New AC UPS 110 VAC Battery
- ⑲ Existing Transformer House

ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION
1	MANUAL CALL POINT(MAC)	4	1.4 m
2	HORN(HN)	1	3 m
3	BEACON (BR)	1RED	3 m
4	SMOKE DETECTOR(S)	3	ON CEILING
5	SMOKE DETECTOR(S)	6	ON CABLE TRENCH
6	H2 GAS DETECTOR (HGD)	1	ON CEILING
7	LINEAR HEAT DETECTOR(LHD)	5	AROUND TRANSFORMER
8	BELL	1	2.4 m
9	INTERNAL BEACON (BR/BY)	1RED 1YELLOW	2.4 m
10	HEAT DETECTOR(HD)	1	ON CEILING

1. ALL DIMENSIONS ARE IN METERS.
2. MGAs SHALL BE WALL MOUNTED AT HEIGHT OF 1.4m ABOVE FINISHED LEVEL.
3. SMOKE DETECTOR, HEAT AND HYDROGEN GAS DETECTOR SHALL BE INSTALLED ON CEILING.
4. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
5. HYDROGEN GAS DETECTORS TO BE CONSIDERED ADDRESSABLE TYPE.
6. SMOKE DETECTOR WITH REMOTE INDICATOR FOR CABLE TRENCH.
7. IN ACCORDANCE TO DOC. HAZARDOUS AREA CLASSIFICATION LABEL, EXTENSION OF BUNK B/C EQUIPMENT SHALL NOT BE EX TYPE.
8. 2 DIFFERENT TONES TO BE SELECTED FOR HORN AND ALARM(NON-CONTINUOUS) AND ONE FOR FIRE DETECTION/FIAMMABLE & TOXIC GAS DETECTION HIGH ALARM (CONTINUOUS).
9. 2 DIFFERENT COLORS TO BE SELECTED FOR BEACONS.
10. RED FOR FIRE
11. YELLOW FOR FLAMMABLE GAS DETECTION
12. MAX. COVERAGE AREA FOR SMOKE DETECTORS HAS BEEN CONSIDERED 57 m² AND FOR HEAT DETECTORS HAS BEEN CONSIDERED 37 m².
13. MAX. DISTANCE BETWEEN TWO SMOKE DETECTORS HAS BEEN CONSIDERED 10 m.

	LEGEND
	SMOKE DETECTOR
	MANUAL CALL POINT
	HYDROGEN GAS DETECTOR
	LINEAR HEAT DETECTOR
	HEAT DETECTOR
	RED BEACON
	YELLOW BEACON
	HORN
	BELL

REFERENCE DRAWING	DWG. No.
SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES	BK-GHML-PEBCO-000-IN-SP-0008
FIRE & GAS DETECTION DESIGN CRITERIA	BK-GCS-PEBCO-120-IN-DC-0001
PLOT PLAIN DRAWING-EXTENSION OF BIVAK B/C MANHOLE	BK-70078-PEBCO-110-PI-PY-0001

[illegible]

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACK WOOLS WHF & EXTENSION OF BINAK B/C MANFOLD
PROJECT NO.:	971020

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HIRGAN PETROBRAS

**HIRGAN ENERGY - DESIGN & INSPECTION
COMPANIES**



PETROIRAN
DEVELOPMENT
COMPANY

SUB-SURFACE WORK PACKAGES

WOOTS WHF & EXTENSION OF BINAK B/C MANIFOLD

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
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(VENDOR TITLE BLOCK)---

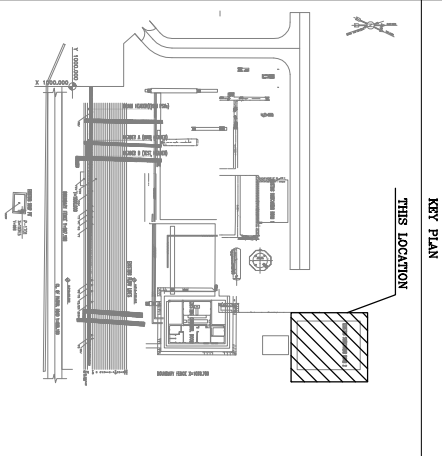
SWITCH GEAR BUILDING AREA

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. MCA₂ SHALL BE WALL MOUNTED AT HEIGHT OF 1.4m ABOVE FINISHED LEVEL.
3. SMOKE DETECTOR, HEAT AND IMPOBON GAS DETECTOR SHALL BE INSTALLED ON CEILING.
4. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
5. HYDROGEN GAS DETECTORS TO BE CONSIDERED ADDRESSABLE TYPE.
6. SMOKE DETECTOR WITH REMOTE INDICATOR FOR CABLE TRENCH.
7. IN ACCORDANCE TO DOC. HAZARDOUS AREA CLASSIFICATION LATEX AFTER REVISION OF B1, BUNK B/0 EQUIPMENT SHALL NOT BE EX TYPE.
8. 2 DIFFERENT TONES TO BE SELECTED FOR HORN AND ALARM(NON-CONTINUOUS) AND ONE FOR FIRE DETECTION/FIAMMABLE & TOXIC GAS DETECTION HIGH ALARM (CONTINUOUS).
9. 2 DIFFERENT COLORS TO BE SELECTED FOR BEACONS.
- RED FOR FIRE
- YELLOW FOR FLAMMABLE GAS DETECTION
10. MAX. COVERAGE AREA FOR SMOKE DETECTORS HAS BEEN CONSIDERED 57 m² AND FOR HEAT DETECTIONS HAS BEEN CONSIDERED 37 m².
- 11 MAX. DISTANCE BETWEEN TWO SMOKE DETECTORS HAS BEEN CONSIDERED 10 m.

LEGEND

REFERENCE DRAWING	DWG. No.
SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES	BK-GHNL-PIECO-000-IN-SF-0006
FIRE & GAS DETECTION DESIGN CRITERIA	BK-GCS-PIECO-120-IN-DC-0001
PLOT PLAIN DRAWING-EXTENSION OF BIVAK B/C MANHOLE	BK-70078-PIECO-110-PI-PY-0001



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

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SUB-SURFACE WORK PACKAGES

WOOTS WHF & EXTENSION OF BINAK B/C MANIFOLD

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
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APPROVED FOR CONSTRUCTION	BY:	DATE:
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APPROVED FOR CONSTRUCTION		DATE:
DESIGNER	PROJECT NO.	DATE
LOCATION	DATE	DATE

DODGE# REF.	LOCATION	SIZE	CUT	DEPTH NO.	SHEET	REVISION
0-53-073-9184	F	2	J	708000	4	D02