

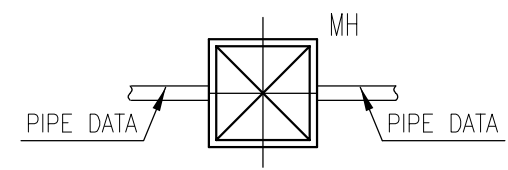
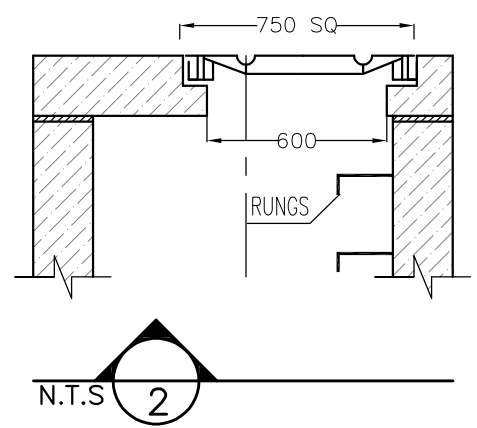
MANHOLE DIMENSIONS

FOR $H \leq 2000$ $D=150$
REINFORCEMENT TYPE "1"

FOR $2000 < H \leq 3000$ $D=250$
REINFORCEMENT TYPE "2"

FOR $H > 3000$ $D=300$
REINFORCEMENT TYPE "2"

STANDARD INSIDE DIMENSIONS:
A=1200x1200 FOR PIPE OUTLET DIAM. 6"~12"



N.T.S 3 SYMBOL ON U/G DWG



- NOTES**
- 1- ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 - 2- 15mm OF BITUMENOUS MATERIAL IS TO PROVIDED AS JOINTS BETWEEN PAVING AND MANHOLES.
 - 3- MANHOLE TOP COVER ELEV. FOR PAVED AREAS HAS THE SAME LEVEL AS FINISHED GRADE AND FOR UNPAVED AREAS IS 50 mm , AS SHOWN IN DRAWING.
 - 4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS, 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE IS 25MPa. (ON CYLINDRICAL SPECIMEN).
 - 5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS, 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 10MPa. (ON CYLINDRICAL SPECIMEN).
 - 6- TYPE II CEMENT SHALL BE USED UNLESS OTHERWISE INDICATED IN THE GEOTECHNICAL SITE REPORT.
 - 7- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm²
 - 8- FOR LADDER RUNGS DETAIL SEE SHEET 4/4.
 - 9- UNDERGROUND CONCRETE SHALL BE PROTECTED AND COATED ACCORDING TO RELEVANT SPECIFICATION.
 - 10- AFTER THE APPROVAL OF THE GEOTECHNICAL REPORT, THE TYPE OF CEMENT WILL BE ANNOUNCED
 - 11- TO PROTECT THE CONCRETE BODY IN CONTACT WITH THE SOIL SEE BK-GNRL-PEDCO-000-CV-DW-0040

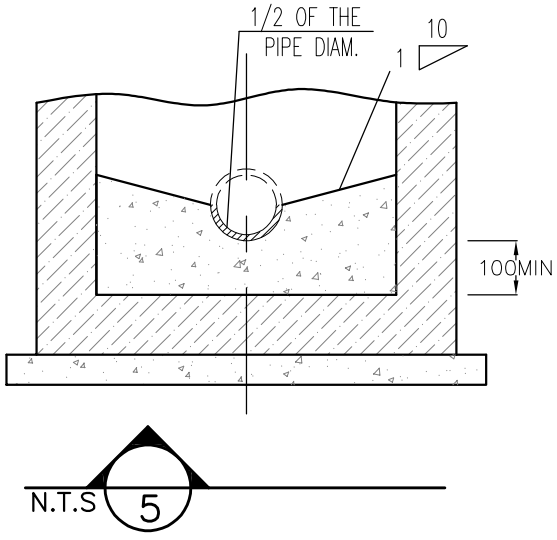
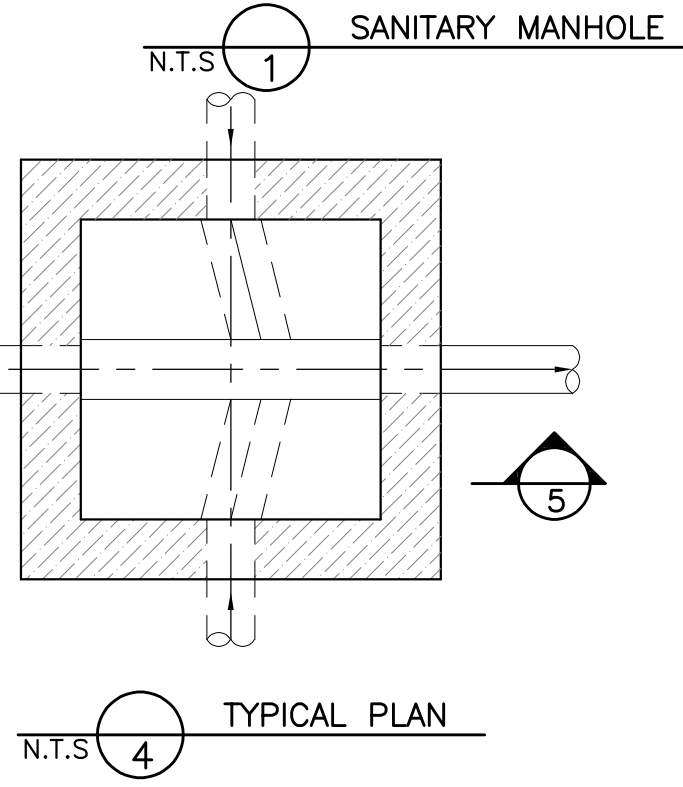
REFERENCE DRAWING		DRG. No.
Specification For Concrete Work	BK-GNRL-PEDCO-000-ST-SP-0001	
Specification For Sewerage & Drainage	BK-GNRL-PEDCO-000-CV-SP-0009	
Underground System Manholes	NOEC-SD-1006-2/10-A3	
General Notes-Reinforced Concrete Structures	BK-GNRL-PEDCO-000-ST-DW-0012	
SIPHON PIPE SEAL, HOLES REINFORCEMENT & LADDER RUNGS	NOEC-SD-1006-10/10-A3	
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRL-PEDCO-000-CV-DW-0040	

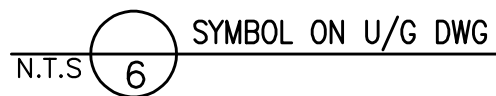
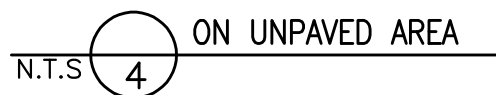
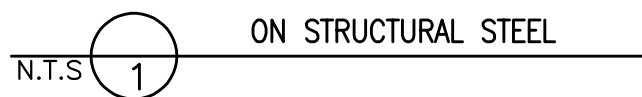
KEY PLAN

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 GENERAL					
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.
N.T.S	A3	BK-GNRL-PEDCO-000-CV-DW-0005	02 OF 03	D04	053-073-9184
LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
F	4	S	707251	02	D04

D04	NOV.2022	IPA	R.BERLOUVE	M.PAKHARHAN	M.MEHRISHAD	** **
D03	OCT.2022	IPA	R.BERLOUVE	M.PAKHARHAN	M.MEHRISHAD	** **
D02	AUG.2022	IPA	R.BERLOUVE	M.PAKHARHAN	M.MEHRISHAD	** **
D01	JAN.2022	IPA	R.BERLOUVE	M.PAKHARHAN	M.MEHRISHAD	** **
D00	AUG.2021	IFI	M.ASHGHARNEJAD	M.PAKHARHAN	SH.GHALKAR	** **
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			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: STANDARD DRAWING FOR MANHOLE SANITARY MANHOLE DETAIL						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
N.T.S	A3	BK-GNRL-PEDCO-000-CV-DW-0005			02 OF 03	D04





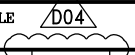





- | NOTES | |
|-------|--|
| 1- | MATERIALS: CARBON STEEL. COMMERCIAL PIPE
ø 3" SCH.40. |
| 2- | BATTERY LIMIT BETWEEN CIVIL WORKS AND PIPING. |
| 3- | OUTSIDE PROCESS AND DANGEROUS AREAS. |
| 4- | TO INSTALL 30m. FAR FROM FURNACES AND FLAMES
(TO REDUCE TO 15m. IF H>15m.) |
| 5- | FLAME ARRESTORS TO BE PROVIDED IN DANGEROUS
AREA AND ALONG ROADS. |
| 6- | IN DANGEROUS AREAS WITH THE POSSIBILITY OF IGNITION,
FLAME ARRESTOR SHOULD BE USED FOR OUTLET
OF THE VENT PIPES. |
| 7- | AT THE HEIGHT OF VENT PIPE MORE THAN 800mm,
SUPPORTS SHOULD BE CONSIDERED. |
| 8- | PROVIDE SLOPE(0.2%) FOR THE MANHOLE.MAX DIFFERENCE
ELEV. IN UNDERGROUND ROUTING IS 100mm. |
| 9- | AFTER THE APPROVAL OF THE GEOTECHNICAL
REPORT, THE TYPE OF CEMENT WILL BE ANNOUNCED |

- | LEGEND | |
|---|---------------------|
|  | REINFORCED CONCRETE |
|  | LEAN CONCRETE |
|  | BACKFILL |
|  | GRAVEL |
|  | UNPAVED AREA |
|  | MASS CONCRETE |

REFERENCE DRAWING	DRG. No.
Specification For Concrete Work	EK-GN-AL-PEDCO-000-SP-SP-0001
Specification For Sewerage & Drainage	EK-GN-AL-PEDCO-000-CV-SP-0005
Underground System Manholes	NOEC-SD-1066-2/10-A3
General Notes-Reinforced Concrete Structures	EK-GN-AL-PEDCO-000-SP-DW-0012
SIPHON PIPE SEAL, HOLES REINFORCEMENT & LADDER RUNGS	NOEC-SD-1066-10/10-A3
STANDARD DETAILS OF MISCELLANEOUS ITEMS	EK-GN-AL-PEDCO-000-CV-DW-0040

D04	NOV.2022	IPA	R.BEKLOUIE	M.PAKHABIAN	M.MERHSAD	**
D03	OCT.2022	IPA	R.BEKLOUIE	M.PAKHABIAN	M.MERHSAD	**
D02	AUG.2022	IPA	R.BEKLOUIE	M.PAKHABIAN	M.MERHSAD	**
D01	JAN.2022	IPA	R.BEKLOUIE	M.PAKHABIAN	M.MERHSAD	**
D00	AUG.2021	IFI	M.ASHARAEZAD	M.PAKHABIAN	S.H.GHALEKAR	**
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			 			
DRAWING TITLE: STANDARD DRAWING FOR MANHOLE VENT DETAIL <div style="text-align: center;">  </div>						
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	
N.T.S	A3	BK-GNRL-PEDCO-000-CV-DW-0005/		03 OF 03	D04	

اسم و کلیه نسخ این نقشه و حق اقسالی متعلق به شرکت ملی مناطق نفت خیز جنوب می باشد.



THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREON ARE THE SOLE PROPERTY OF
N.I.S.O.C./ FIELDS

BINAK OILFIELD DEVELOPMENT GENERAL				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION		BY:	DATE:
BUDGET REF.	LOCATION	SIZE	CLASS

SHEET NO.	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S
707251		03	D04