

CONNECT TO SANITARY SEWERAGE NETWORK

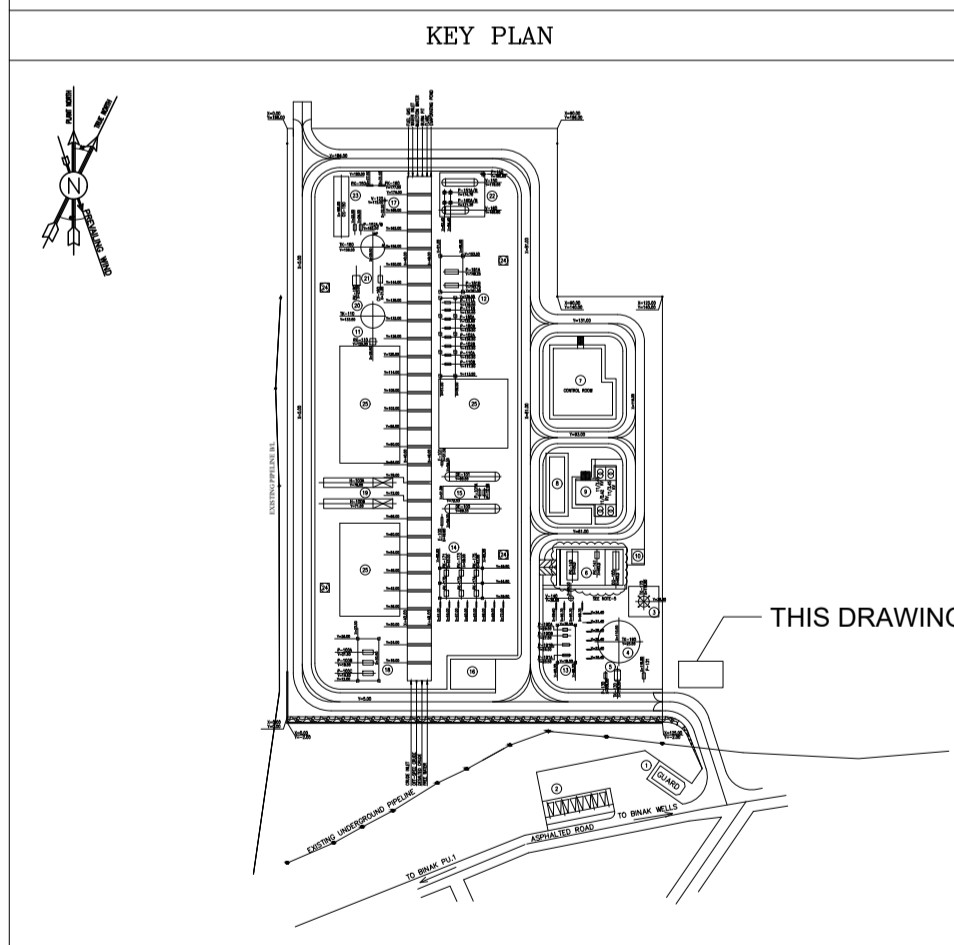
1 FLOOR PLAN
SC.1:50 Sewage Piping Layout

| | |
|-----|--------------|
| 100 | CONTROL ROOM |
| 101 | RACK ROOM |
| 102 | PANTRY |
| 103 | WC |
| 104 | ENTRANCE |

- NOTES**
- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETER & ALL ELEVATIONS ARE IN METER UNLESS NOTED OTHERWISE.
 - ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - THIS DWG. SHOULD BE WORKED TOGETHER WITH THE OTHER MECHANICAL, ARCHITECTURAL ELECTRICAL DWGS. & ANY CONFLICT SHOULD CLARIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - ALL HORIZONTAL DOMESTIC WATER PIPES IN THE BUILDING SHALL RUN ABOVE THE FALSE CEILING UNLESS OTHERWISE SPECIFIED.
 - MATERIAL OF DOMESTIC COLD AND HOT WATER PIPES OUTSIDE BUILDING ARE GALVANIZED STEEL IN ACCORDANCE WITH ASTM A53 AND FITTINGS ARE IN ACCORDANCE WITH ASME B16.12.
 - DOMESTIC HOT WATER PIPING INSIDE THE BUILDING WILL BE COVERED WITH THERMAL INSULATION (WATER PIPE INSULATION) ACCORDING TO NIBR TOPIC 16.
 - DOMESTIC COLD WATER PIPING OUTSIDE THE BUILDING SHALL BE COVERED WITH ELASTOMERIC INSULATION (MIN 25MM)
 - TOP OF THE SUPPORT STEEL STRUCTURE SHALL BE CONSIDERED AS B.O.P.
 - MATERIAL OF SANITARY SEWER, VENT PIPES AND FITTINGS SHALL BE PVC-U (80-TYPE) IN ACCORDANCE WITH EN 1451.
 - EXPOSED VENT PIPE AT ROOF LEVEL SHALL BE PROTECTED FROM SUNLIGHT BY PAINTING, COATING OR INSULATION.
 - SLOPE OF SEWAGE PIPES ARE 1.5% - 2% TO DRAIN.
 - MATERIAL OF DOMESTIC COLD AND HOT WATER PIPES INSIDE BUILDING SHALL BE FIVE LAYERED POLYETHYLENE PEX -AL- PEX ACCORDING TO ASTM F1281/1282 AND FITTINGS SHALL BE ACCORDING TO ASTM F1281/1282.
 - MATERIAL OF HOT DIPPED GALVANIZED STEEL PIPE SHALL BE ACCORDING TO ASTM A53 GR B AND FITTINGS SHALL BE ACCORDING TO ASTM A234 GR WPB.
 - ALL VALVES ABOVE THE FALSE CEILING SHALL HAVE ACCESS DOOR.
 - THE WASTE FROM BUILDING TO WASTE WATER TREATMENT PLANT SHALL DISCHARGE BY GRAVITY FLOW.
 - FINAL ROUTE FOR PLUMBING SHALL NOT BE OVER AND NEAR THE ELECTRICAL & CONTROL PANEL.

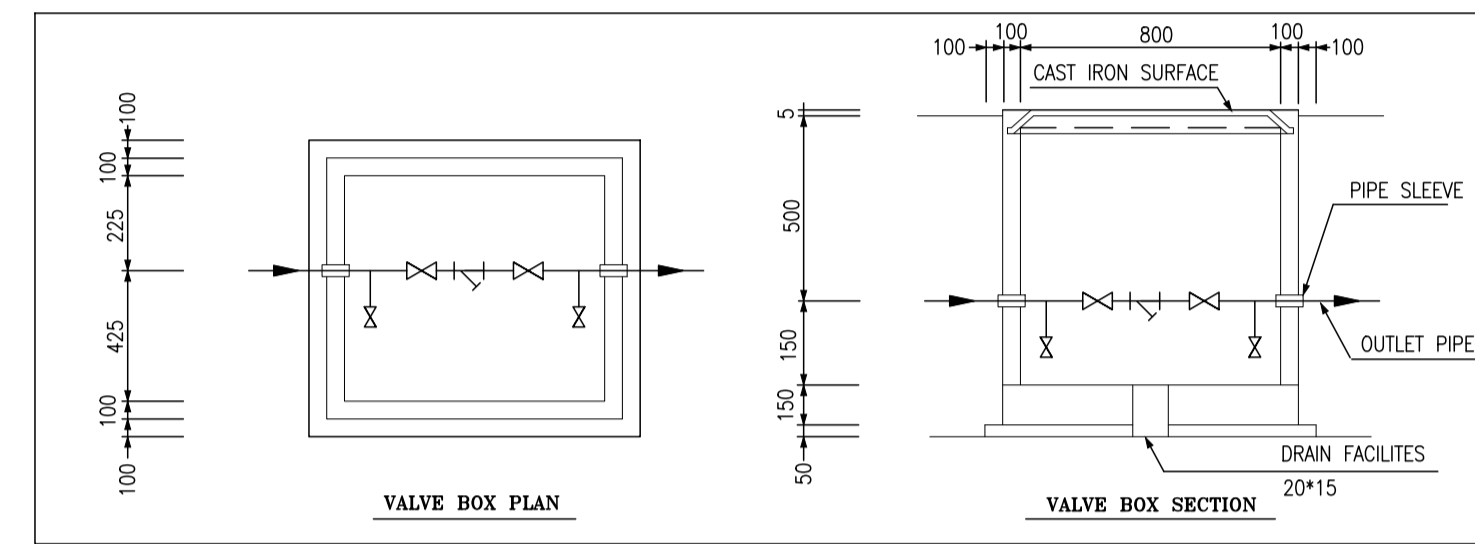
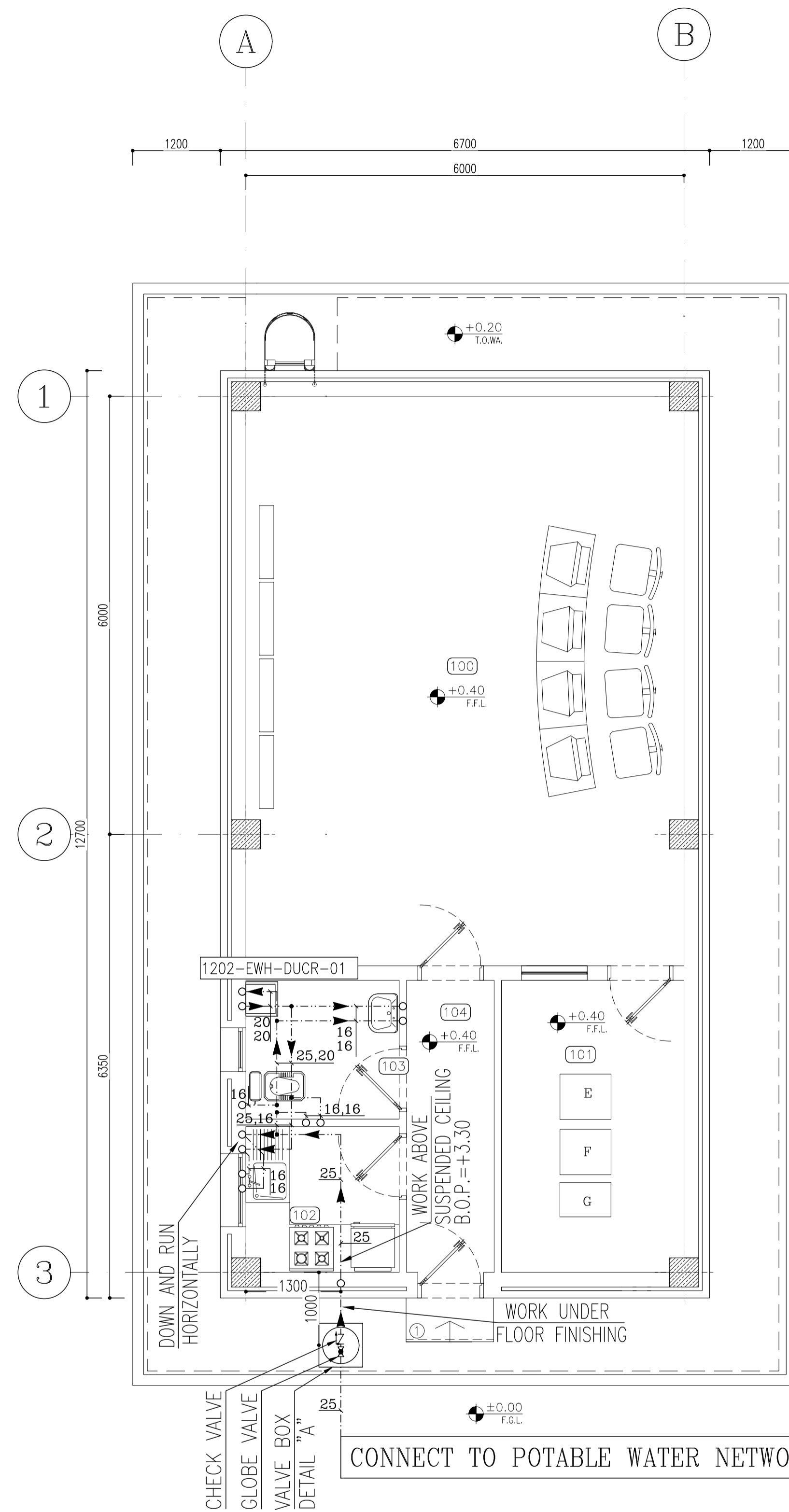
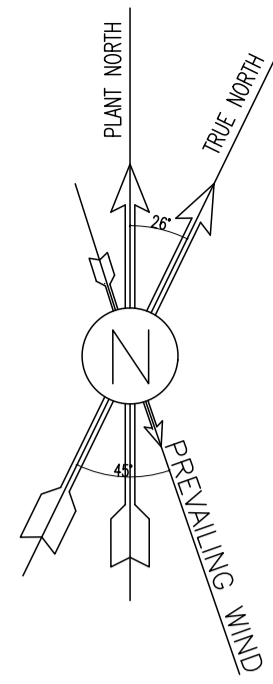
LEGEND

| REFERENCE DRAWING | DRG. No. |
|--|------------------------------|
| HVAC & Plumbing Design Criteria | BK-GNRL-PEDCO-000-HV-DC-0001 |
| Specification For Duct Work & Pipe Work | BK-GNRL-PEDCO-000-HV-SP-0002 |
| Standard Drawing For HVAC & Plumbing | BK-GNRL-PEDCO-000-HV-DW-0001 |
| Symbol & Legend For HVAC & Plumbing | BK-GNRL-PEDCO-000-HV-DW-0002 |
| HVAC System Layout And Plumbing For CCTV Control Room - BINAK DU | BK-GCS-PEDCO-120-HV-PY-0010 |
| Architectural Drawing For CCTV Control Room - Binak DU | BK-GCS-PEDCO-120-AR-DW-0009 |
| Site Sewerage System Layout & Details | BK-GCS-PEDCO-120-CV-PY-0001 |
| Unit Plot Plan Drawing | BK-GCS-PEDCO-120-PI-PY-0001 |



| REV. | DESCRIPTION | BY | DATE | BY | DATE | | | | | |
|--|-------------|-----------------------------|-----------------------------------|-------------|--------------|----------|------------|------------|--------|--------------|
| DOO | JAN.2024 | IPC | KAHMADI | M.FAKHARIAN | S.FARMAZPOUR | | | | | |
| 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: Plumbing & Sewage Piping Layout For CCTV Control Room - BINAK DU | | | | | | | | | | |
| 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 | A1 | BK-GCS-PEDCO-120-HV-PY-0013 | 01 OF 02 | D00 | 053-073-9184 | F | 4 | B | 709513 | 01 OF 02 D00 |

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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ALL DIMENSIONS OF VALVE BOX ARE IN MILIMETER

DETAIL "A" : VALVE BOX PLAN AND SECTION

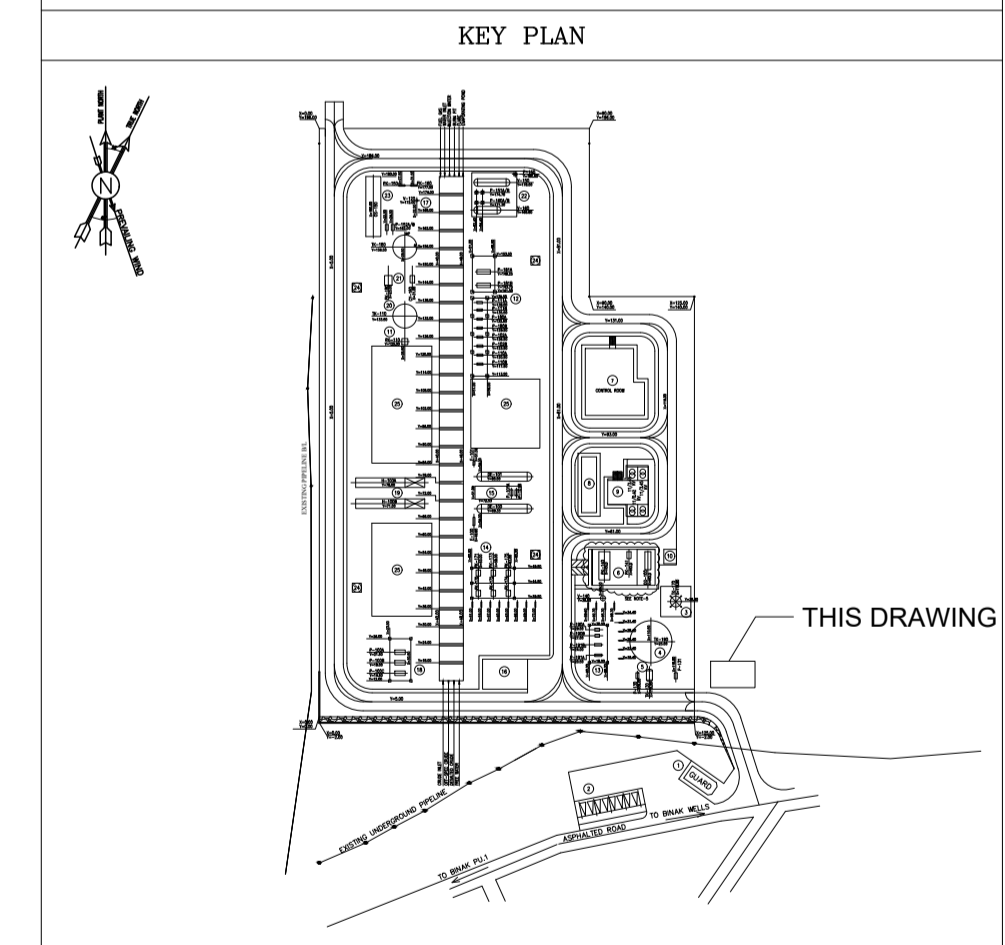
2 FLOOR PLAN
SC.1:50 Potable Water Piping Layout

| | |
|-----|--------------|
| 100 | CONTROL ROOM |
| 101 | RACK ROOM |
| 102 | PANTRY |
| 103 | WC |
| 104 | ENTRANCE |

- NOTES
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LEGEND

| REFERENCE DRAWING | DRG. No. |
|--|------------------------------|
| HVAC & Plumbing Design Criteria | BK-GNRL-PEDCO-000-HV-DC-0001 |
| Specification For Duct Work & Pipe Work | BK-GNRL-PEDCO-000-HV-SP-0002 |
| Standard Drawing For HVAC & Plumbing | BK-GNRL-PEDCO-000-HV-DW-0001 |
| Symbol & Legend For HVAC & Plumbing | BK-GNRL-PEDCO-000-HV-DW-0002 |
| HVAC System Layout And Plumbing For For CCTV Control Room - BINAK DU | BK-GCS-PEDCO-120-HV-PY-0010 |
| Architectural Drawing For CCTV Control Room - Binak DU | BK-GCS-PEDCO-120-AR-DW-0009 |
| Site Sewerage System Layout & Details | BK-GCS-PEDCO-120-CV-PY-0001 |
| Unit Plot Plan Drawing | BK-GCS-PEDCO-120-PI-PY-0001 |



Hot Water Demand per Fixture (Office)

| Fixture | Demand (GPH) | Quantity | Total Demand (GPH) |
|------------------------|--------------|----------|--------------------|
| Basin, privet lavatory | 2 | 1 | 2 |
| Pantry Sink | 10 | 1 | 10 |
| Demand Factor | 0.3 | | 12 |
| Storage Factor | 2 | | |

$V = 12 \times 0.3 \times 2 \times 3.785 = 27.252 \text{ Lit} \sim 30 \text{ Lit}$

AUTOMATIC ELECTRICAL WATER HEATER

| EQUIPMENT NO. | QTY | INSTALLATION AREA | TYPE | NOMINAL STORAGE TANK CAPACITY (Liter) | STORAGE TANK MATERIAL CONSTRUCTION | ELECTRIC POWER SUPPLY V/PH/Hz | HEATING ELEMENT POWER (KW) | INCLUDING |
|------------------|-----|-------------------|--------------|---------------------------------------|------------------------------------|-------------------------------|----------------------------|--|
| 1202-EWH-DUCR-01 | 1 | TOILET | WALL MOUNTED | 30 | GALVANIZED STEEL | 230/1/50 | 2 | STANDARD THERMOSTATS (A SAFETY CUT-OUT) PREVENTING THE ELECTRICALLY-LIVE PARTS TO BE IN CONTACT WITH WATER. AND EQUIPPED WITH DRAIN VALVE, TEMPERATURE GAGE AND ALL STANDARD ACCESSORIES |

| REV. | DESCRIPTION | BY | DATE | BY | DATE | |
|------|-------------|---------|--------|-------------|--------------|------|
| DOO | JAN.2024 | IPC | KAHMAI | M.FAKHARIAN | S.FARMAZPOUR | |
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY (DESIGN & INSPECTION COMPANIES)

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: Plumbing & Sewage Piping Layout For CCTV Control Room - BINAK DU

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

| DATE | SCALE | DRAWING BY | CHECKED BY | PROJECT ENG. |
|------|-------|------------|------------|--------------|
| | | | | |

| SCALE | SIZE | DRAWING NO. | SHEET NO. | REV. | BUDGET REF. | LOCATION | SIZE CLASS | SERIAL NO. | SHEET REVISION |
|----------|------|-----------------------------|-----------|------|--------------|----------|------------|------------|---------------------|
| AS SHOWN | A1 | BK-GCS-PEDCO-120-HV-PY-0013 | 02 OF 02 | D00 | 053-073-9184 | F | 4 | B | 709513 02 OF 02 D00 |