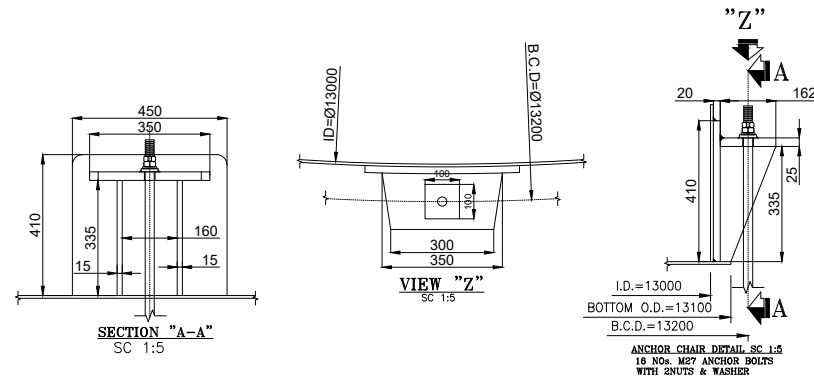
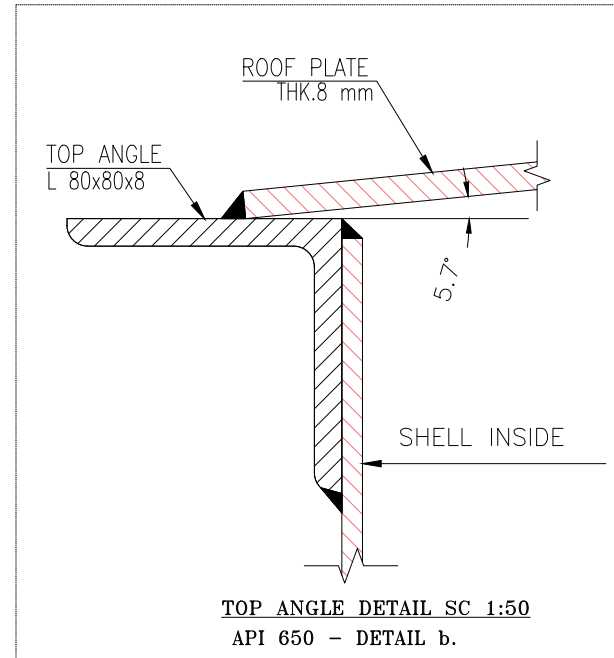
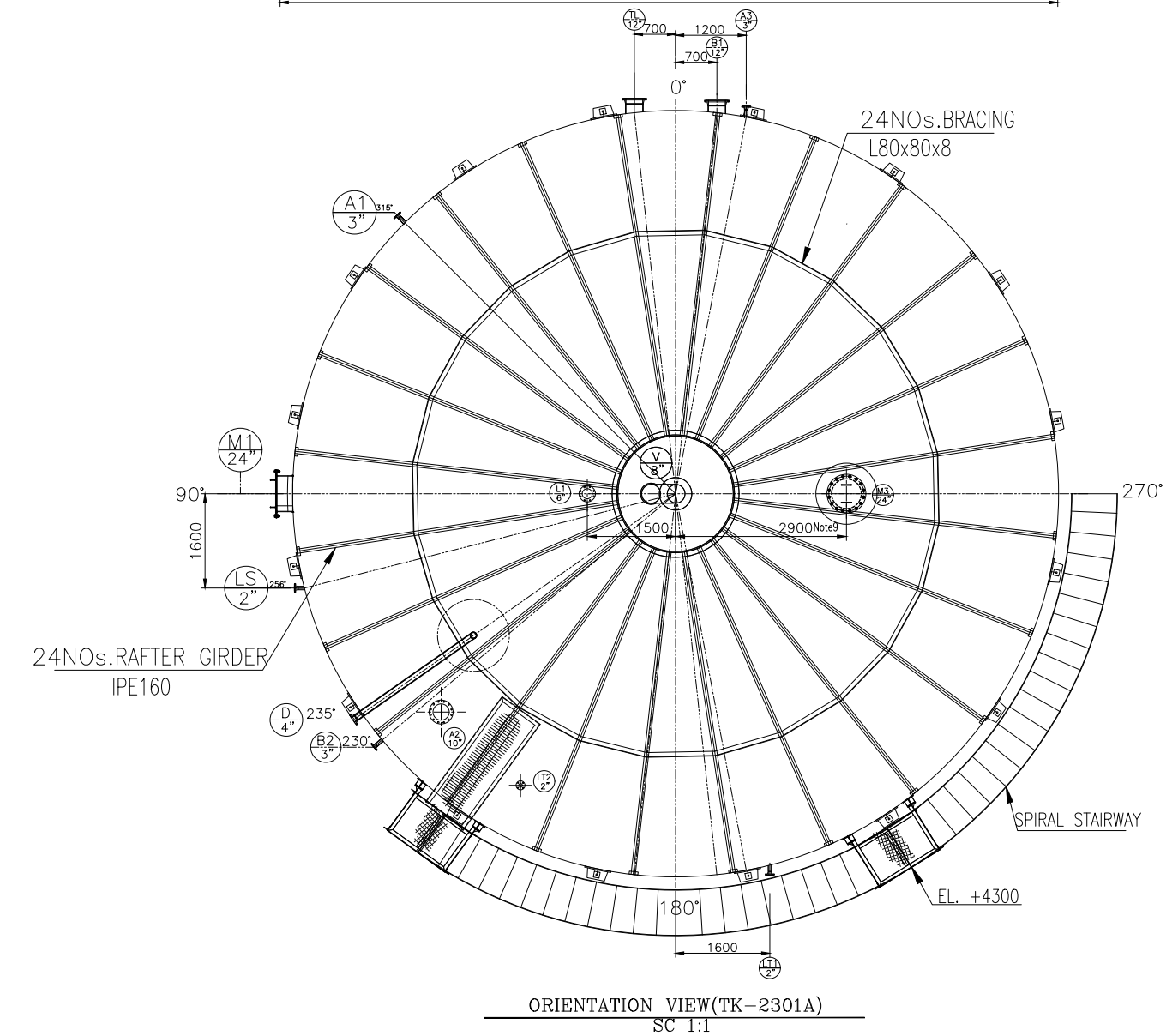
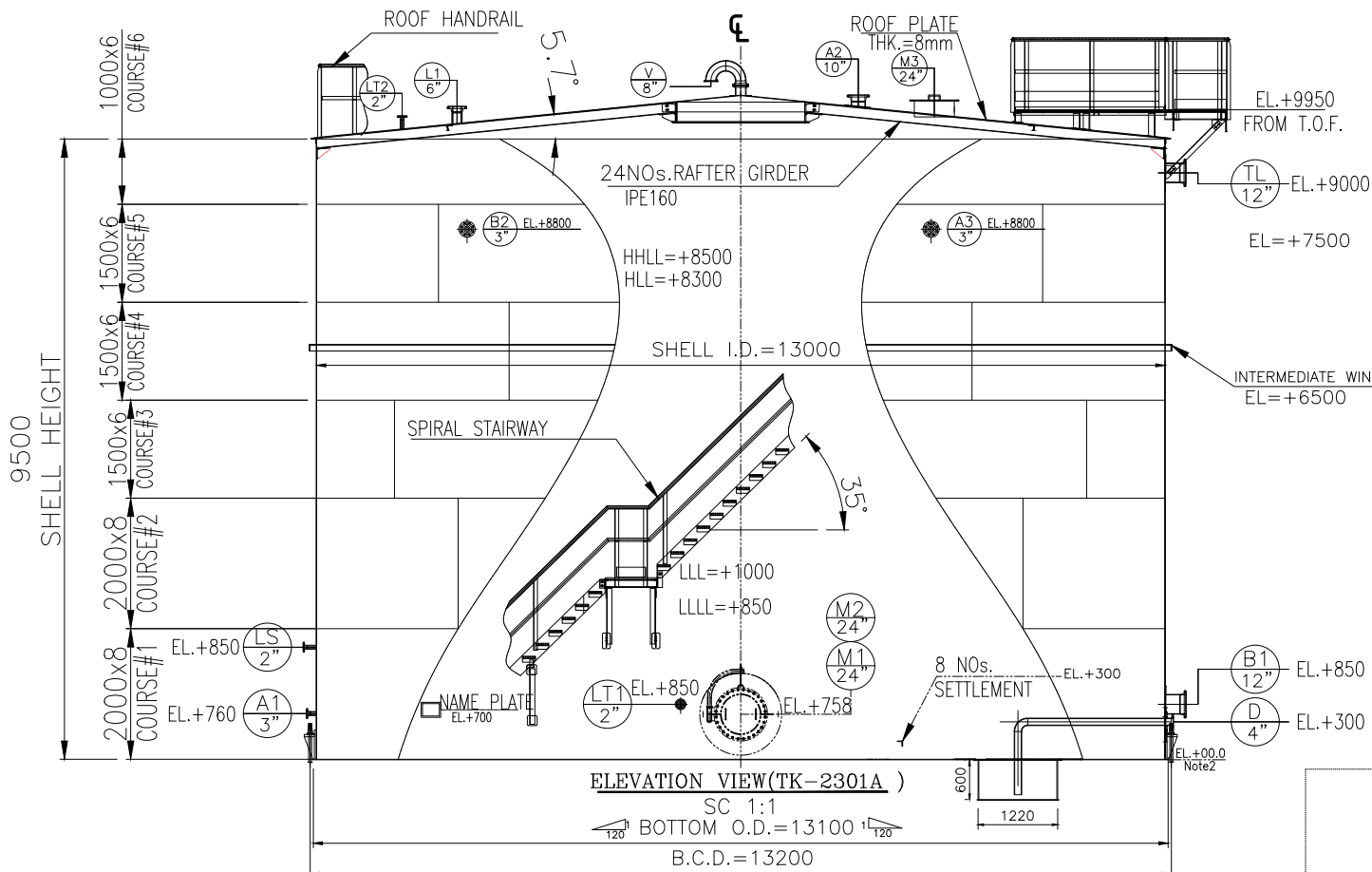




| NOZZLE LIST |     |                       |      |      |                |      |       |        |                             |
|-------------|-----|-----------------------|------|------|----------------|------|-------|--------|-----------------------------|
| ITEM        | QTY | SERVICE               | SIZE | SO.  | THK            | TYPE | PLANS | PROJ.  | OD. x THK. REINF.           |
| A1          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150# | R.F.  | 6691   | 255x81                      |
| B1          | 1   | Outlet                | 12"  | 80   | W.N.           | 150# | R.F.  | 6741   | 685x81                      |
| TL          | 1   | Test Line             | 12"  | 80   | W.N.           | 150# | R.F.  | 6741   | 685x81                      |
| A3          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150# | R.F.  | 6691   | 255x81                      |
| LS          | 1   | Level Switch          | 2"   | 80   | W.N.           | 300# | R.F.  | 6666   | 666x81                      |
| B2          | 1   | Over Flow             | 3"   | 80   | W.N.           | 150# | R.F.  | 6691   | 685x81                      |
| D           | 1   | Drain                 | 4"   | 80   | W.N.           | 150# | R.F.  | 6691   | 305x81                      |
| M1/2        | 2   | Manhole               | 24"  | -7/8 | AS PER API-650 |      |       | 6816   | 1255x81 with draft          |
| LT1         | 1   | Level Transmitter     | 1"   | 80   | W.N.           | 300# | R.F.  | 6666   | -                           |
| V           | 1   | Vent                  | 8"   | 80   | W.N.           | 150# | R.F.  |        | 225x81                      |
| LI          | 1   | Level Indicator       | 6"   | 80   | W.N.           | 300# | R.F.  |        | 170x81                      |
| VB          | 1   | Roof Manhole          | 24"  | 80   | W.N.           | 150# | R.F.  | NOTE 9 | 175x81 with draft and hinge |
| LT2         | 1   | Level Transmitter     | 2"   | 80   | W.N.           | 300# | R.F.  |        | 65x81                       |
| A2          | 1   | Pressure Relief Valve | 10"  | 80   | W.N.           | 150# | R.F.  |        | 280x81                      |

| GENERAL DATA                                                 |                                             |
|--------------------------------------------------------------|---------------------------------------------|
| TAG No.                                                      | TK-2301 A                                   |
| QTY. OF TANKS                                                | 1                                           |
| STORAGE FLUID                                                | Fire Water Tank                             |
| CODE                                                         | API 650 (13th EDITION, ADD. 2021, APP.E.P.) |
| CAL. METHOD FOR SHELL                                        | ONE FOOT METHOD                             |
| ROOF TYPE                                                    | Rafter Supported Cone Roof                  |
| SPECIFIC GRAVITY                                             | 1                                           |
| CORROSION ALLOWANCE BOTTOM/ SHELL / ROOF/NOZZLES             | 1.6/1.6/1.6/1.6                             |
| SEISMIC DATA: Sa/S1/Fa/Fv/Site Class/SUG                     | 1.1255/0.46/1/1.33/D/II                     |
| WIND VELOCITY / DESIGN WIND VELOCITY                         | (Km/h) 232/193                              |
| DIMENSIONS                                                   | 13000 I.D. x 9500 Height                    |
| TEMPERATURE: OPERATING / DESIGN                              | (°C) AMB. / 85                              |
| INT.PRESSURE: OPERATING (MIN./MAX)/DESIGN (INT./EXT.) (bars) | 0 / 1.255 / 1.255                           |
| EXT. DESIGN PRESSURE                                         | (bars) 0                                    |
| CAPACITY: NOMINAL / NET                                      | (m³) 1260/1040                              |
| FILLING/EMPTYING RATE (MAX):                                 | (m³/h) HOLD                                 |
| COOLING SYSTEM/FOAM SYSTEM                                   | NO/NO                                       |
| P.W.H.T.                                                     | NO                                          |
| FOUNDATION TYPE                                              | RING WALL                                   |
| APPLICABLE ANNEXES                                           | E                                           |
| CATHODIC PROTECTION(EXTERNAL/INTERNAL)                       | YES/NO                                      |
| DESIGN METAL TEMPERATURE                                     | (°C) AMB.                                   |
| HHLL / LLLL                                                  | (mm) 8500 / 850                             |
| BLANKETING (with nitrogen)                                   | NO                                          |
| FLAME ARRESTOR                                               | NO                                          |
| EMERGENCY VENT                                               | NO                                          |
| PRESSURE RELIEF VALVE                                        | YES                                         |
| GAUGE HATCH                                                  | YES                                         |

| THICKNESS SUMMARY                       |                |
|-----------------------------------------|----------------|
| ANNUAL THICKNESS                        | mm 1           |
| BOTTOM THICKNESS                        | mm 8           |
| ROOF THICKNESS                          | mm 8           |
| SHELL THICKNESS C#1/C#2/C#3/C#4/C#5/C#6 | mm 8/8/6/6/6/6 |

| INSPECTION & TEST               |                                          |
|---------------------------------|------------------------------------------|
| VISUAL & DIMENSIONAL INSPECTION | YES                                      |
| HYDROSTATIC TEST                | YES (FILLED WITH WATER TO HHLL+50mm H2O) |
| RADIOGRAPHY EXAM.               | YES(API650- B.1.2)                       |
| VACUUM BOX TEST                 | YES                                      |
| AIR AND SOAP LEAK TEST          | YES                                      |
| IMPACT TEST                     | NO                                       |

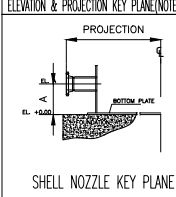
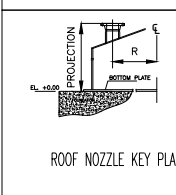
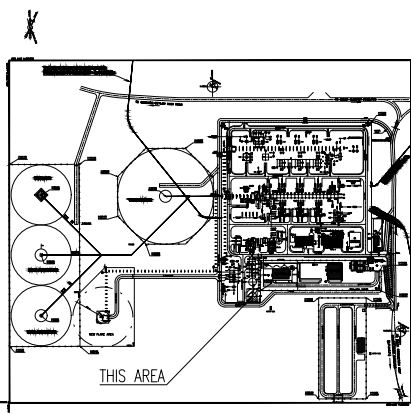
| SURFACE TREATMENT (PAINTING & INSULATION) |                 |
|-------------------------------------------|-----------------|
| INTERNAL (SHELL/ROOF/BOTTOM)              | YES/YES/YES     |
| EXTERNAL (SHELL/ROOF/BOTTOM/STRUCTURE)    | YES/YES/YES/YES |
| INSULATION                                | NO              |

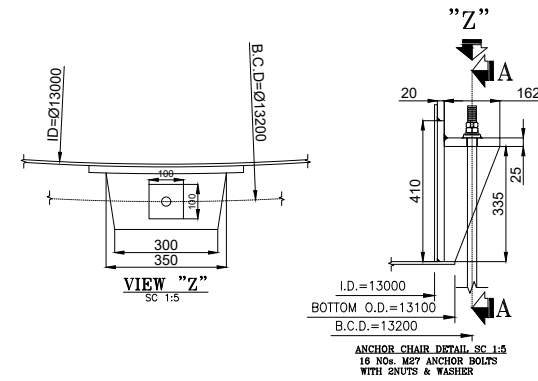
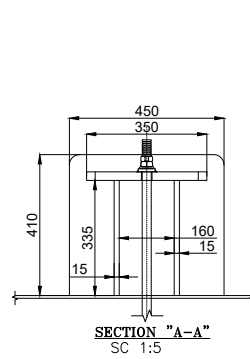
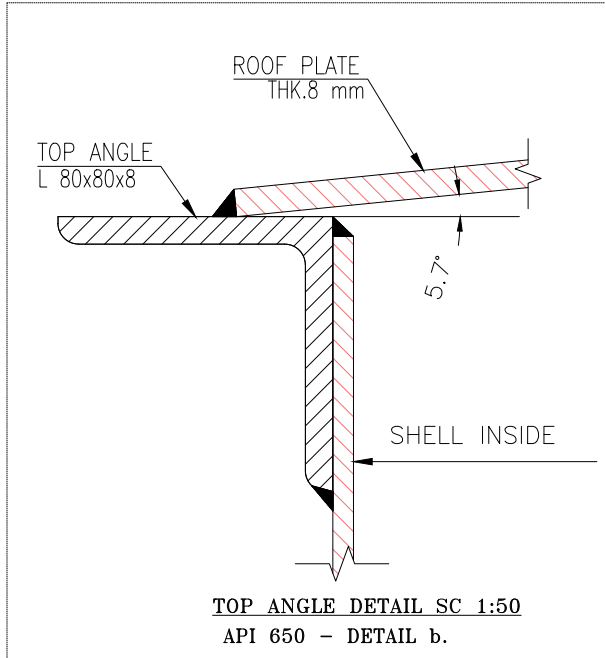
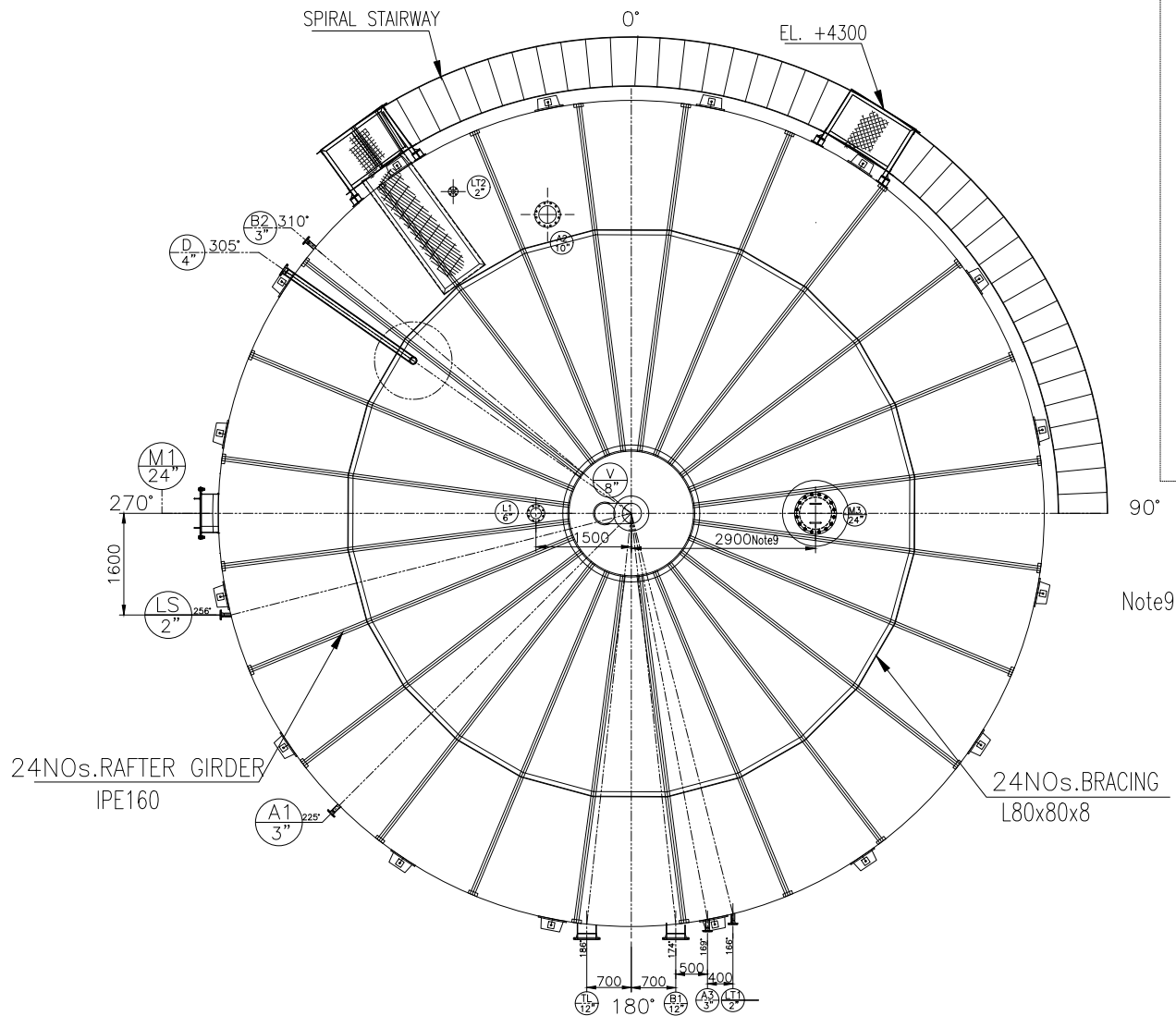
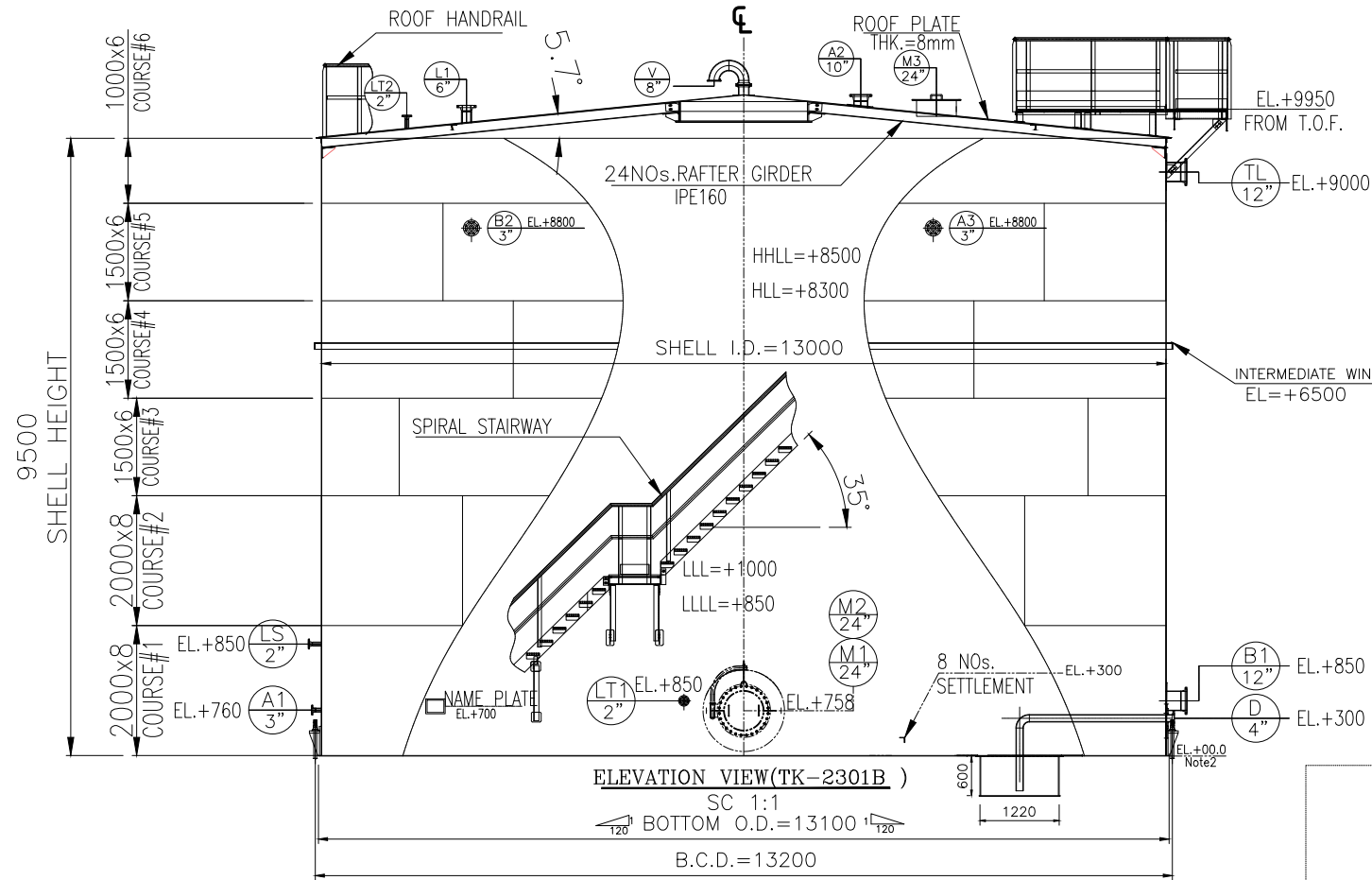
| MATERIAL                         |                                                         |
|----------------------------------|---------------------------------------------------------|
| ROOF/SHELL/REINF. PAD            | SA283-C                                                 |
| BOTTOM/ANNULAR PLATE/WIND GIRDER | SA283-C/SA283-C/A36                                     |
| STRUCTURE/TOP ANGLE              | ST37                                                    |
| NOZZLE NECK(PLATE/PIPE)          | SA283-C/A-1060/B                                        |
| FLANGE(PLATE/FORCED)             | SA283-C/A-105                                           |
| EXTERNAL (BOLTS /NUTS)           | A 193-BM / A 194-BM (Std Dip Galvanizing or Bichromate) |
| GASKET                           | Note 7(PITFE for manhole gasket material)               |
| ANCHOR BOLT                      | F1554 Gr.36                                             |
| FITTINGS                         | A 234 WPB                                               |
| NAME PLATE BRACKET / NAME PLATE  | A 283 Gr. C / A 240 316 L                               |
| INTERNAL (BOLTS /NUTS)           | A 193-BM / A 194-BM                                     |
| FIXED INTERNALS                  | A 106 Gr. B / A 283 Gr. C                               |
| FOAM AND WATER COOLING SYSTEM    | N/A                                                     |

| LOADING DATA                  |                |
|-------------------------------|----------------|
| EMPTY WEIGHT                  | 53 TON         |
| HYDROTEST WEIGHT              | 1323 TON       |
| OPERATING WEIGHT              | 1103 TON       |
| WIND SHEAR                    | 287 KN         |
| WIND MOMENT                   | 1861 KN.m      |
| SEISMIC SHEAR                 | 1430 KN        |
| SEISMIC MOMENT RING WALL/SLAB | 5198/7884 KN.m |

|                                                                                            |           |         |            |            |             |      |
|--------------------------------------------------------------------------------------------|-----------|---------|------------|------------|-------------|------|
| VOO                                                                                        | NOV. 2024 | IFA     | Drill M.E. | M.FAKHARAN | M.SADEGHIAN | **   |
| REV.                                                                                       | DATE      | P.O.I.S | PREP.      | CHK.       | APP.        | AUT. |
| PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES |           |         |            |            |             |      |
| PROJECT NO.: 971020                                                                        |           |         |            |            |             |      |
| EPC CONTRACTOR: HIRGAN ENERGY                                                              |           |         |            |            |             |      |
| EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY                                     |           |         |            |            |             |      |

|                                                                     |      |                           |  |           |      |  |
|---------------------------------------------------------------------|------|---------------------------|--|-----------|------|--|
| DRAWING TITLE: GENERAL ARRANGEMENT FOR FIRE WATER TANKS (TK-2301 A) |      |                           |  |           |      |  |
| SCALE                                                               | SIZE | DRAWING NO.               |  | SHEET NO. | REV. |  |
| 1:110                                                               | A3   | BK-GCS-IDR-120-ME-DW-0007 |  | 1 OF 2    | VOO  |  |

|                                                                                                                                                                                                                                                                                            |             |            |                                 |              |          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|---------------------------------|--------------|----------|----------|
| NOTES                                                                                                                                                                                                                                                                                      |             |            |                                 |              |          |          |
| 1. ALL DIMENSION ARE IN mm, UNLESS OTHERWISE SPECIFIED.                                                                                                                                                                                                                                    |             |            |                                 |              |          |          |
| 2. ALL ELEVATIONS ARE MEASURED FROM TOP OF FOUNDATION.                                                                                                                                                                                                                                     |             |            |                                 |              |          |          |
| 3. SHELL AND ROOF NOZZLES PROJECTIONS ARE MEASURED FROM OUTSIDE SHELL BODY OR ROOF PLATE.                                                                                                                                                                                                  |             |            |                                 |              |          |          |
| 4. ROOF-SHELL JUNCTION IS ABOVE OF TOP ANGLE.                                                                                                                                                                                                                                              |             |            |                                 |              |          |          |
| 5. MINIMUM ANCHOR BOLT YIELD STRESS Sy =248 MPa.                                                                                                                                                                                                                                           |             |            |                                 |              |          |          |
| 6. ANCHOR BOLTS TO BE STRADDLED NORTH/SOUTH CL. UNLESS OTHERWISE NOTED.                                                                                                                                                                                                                    |             |            |                                 |              |          |          |
| 7. GASKET PROPERTIES:ASBESTOS FREE SPW, WIOR, RF, 4.5MM, SPIRAL:316L, CENTERING RING: C.S./INNER RING:316L,FILLER:GRAPHITE, ASME B16.20 FOR PIPING COMPONENT AND FLAT GASKET MATERIAL (WHICH CONFIRMED TO 'API650') SHALL BE NEOPRENE RUBBER SHEET CONSIDERED FOR ROOF AND SHELL MANHOLES. |             |            |                                 |              |          |          |
| 8. SHELL NOZZLE PROJECTION HAS BEEN SPECIFIED FROM TANK CENTER LINE AND ROOF NOZZLE PROJECTION SHALL HAS BEEN SPECIFIED FROM UNDERSIDE OF BOTTOM PLATE                                                                                                                                     |             |            |                                 |              |          |          |
| 9. DUE TO THE CLASH BETWEEN THE NOZZLES (M3/L1) WITH THE RAFTER, IT IS NECESSARY TO MOVE THESE NOZZLES.                                                                                                                                                                                    |             |            |                                 |              |          |          |
| 10. DUE TO THE PROTECTION OF COURSES ABOVE 5 m OF THE TANK DURING ERECTION AGAINST THE WIND, IT IS RECOMMENDED TO USE A GIRDER CONNECTION.                                                                                                                                                 |             |            |                                 |              |          |          |
| HOLD ITEM(DATA MUST BE GIVEN BY CLIENT)                                                                                                                                                                                                                                                    |             |            |                                 |              |          |          |
| 1. IN THE FOLLOWING ITEMS, THERE IS A DISCREPANCY BETWEEN MECHANICAL DATA SHEET AND NOZZLE ORIENTATION & LADDER-PLATFORM, AND THE CLIENT SHOULD CLARIFY:                                                                                                                                   |             |            |                                 |              |          |          |
| - ROOF NOZZLES (LT2/A2)                                                                                                                                                                                                                                                                    |             |            |                                 |              |          |          |
| - SHELL NOZZLES (A3/M2/LT1/PSV)                                                                                                                                                                                                                                                            |             |            |                                 |              |          |          |
| 2. INTERNAL ATTACHMENT(REMOVE ABLE AND OTHER).                                                                                                                                                                                                                                             |             |            |                                 |              |          |          |
| 3. SAFETY NOZZLES DATA.                                                                                                                                                                                                                                                                    |             |            |                                 |              |          |          |
| 4. FILLING/EMPTYING RATE.                                                                                                                                                                                                                                                                  |             |            |                                 |              |          |          |
| LEGEND                                                                                                                                                                                                                                                                                     |             |            |                                 |              |          |          |
| ELEVATION & PROJECTION KEY PLANE(NOTE2,3,8)                                                                                                                                                                                                                                                |             |            |                                 |              |          |          |
|                                                                                                                                                                                                         |             |            |                                 |              |          |          |
|                                                                                                                                                                                                        |             |            |                                 |              |          |          |
| REFERENCE DOCUMENT                                                                                                                                                                                                                                                                         |             |            | DRG. No.                        |              |          |          |
| MECHANICAL DATA SHEETS FOR FIRE WATER STORAGE TANK                                                                                                                                                                                                                                         |             |            | BK-GCS-PEDCO-120-ME-DT-0017-D03 |              |          |          |
| Mechanical Design Criteria                                                                                                                                                                                                                                                                 |             |            | BK-GNRL-PEDCO-000-ME-DC-0001    |              |          |          |
| Specification for Painting                                                                                                                                                                                                                                                                 |             |            | BK-GNRL-PEDCO-000-PI-SP-0008    |              |          |          |
| Specification for Insulation                                                                                                                                                                                                                                                               |             |            | BK-GNRL-PEDCO-000-PI-SP-0019    |              |          |          |
| Specification for Lining                                                                                                                                                                                                                                                                   |             |            | BK-GNRL-PEDCO-000-PI-SP-0007    |              |          |          |
| KEY PLAN                                                                                                                                                                                                                                                                                   |             |            |                                 |              |          |          |
|                                                                                                                                                                                                       |             |            |                                 |              |          |          |
| ***                                                                                                                                                                                                                                                                                        | *****       | ** **      | *** ****                        | ** **        | *** **** |          |
| REV.                                                                                                                                                                                                                                                                                       | DESCRIPTION | BY         | DATE                            | BY           | DATE     |          |
|                                                                                                                                                                                                                                                                                            |             | CHECKED    |                                 | REV.         | APPR.    |          |
|                                                                                                                                                                                                       |             |            |                                 |              |          |          |
| 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 SURFACE FACILITIES GAS CPMRESSOR STATION                                                                                                                                                                                                                        |             |            |                                 |              |          |          |
| DATE                                                                                                                                                                                                                                                                                       | SCALE       | DRAWING BY | CHECKED BY                      | PROJECT ENG. |          |          |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                                                                                                                                                                                          |             |            |                                 |              |          |          |
| APPROVED FOR CONSTRUCTION                                                                                                                                                                                                                                                                  |             |            | BY:                             |              | DATE:    |          |
| BUDGET REF.                                                                                                                                                                                                                                                                                | LOCATION    | SIZE       | CLASS                           | SERIAL NO.   | SHEET    | REVISION |



| NOZZLE LIST |     |                       |      |      |                |      |         |        |                             |
|-------------|-----|-----------------------|------|------|----------------|------|---------|--------|-----------------------------|
| ITEM        | QTY | SERVICE               | SIZE | SO.  | THK            | TYPE | PLATING | PROJ.  | OD. x THK. REINF.           |
| A1          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150# | R.F.    | 6691   | 255x81                      |
| B1          | 1   | Outlet                | 12"  | 80   | W.N.           | 150# | R.F.    | 6741   | 685x81                      |
| TL          | 1   | Test Line             | 12"  | 80   | W.N.           | 150# | R.F.    | 6741   | 685x81                      |
| A3          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150# | R.F.    | 6691   | 255x81                      |
| LS          | 1   | Level Switch          | 2"   | 80   | W.N.           | 300# | R.F.    | 6666   | 666x81                      |
| B2          | 1   | Over Flow             | 3"   | 80   | W.N.           | 150# | R.F.    | 6691   | 685x81                      |
| D           | 1   | Drain                 | 4"   | 80   | W.N.           | 150# | R.F.    | 6691   | 305x81                      |
| M1/2        | 2   | Manhole               | 24"  | -7/8 | AS PER API-650 |      |         | 6816   | 1255x81 with draft          |
| LT1         | 1   | Level Transmitter     | 1"   | 80   | W.N.           | 300# | R.F.    | 6666   | -                           |
| V           | 1   | Vent                  | 8"   | 80   | W.N.           | 150# | R.F.    |        | 225x81                      |
| LI          | 1   | Level Indicator       | 6"   | 80   | W.N.           | 300# | R.F.    |        | 170x81                      |
| VB          | 1   | Roof Manhole          | 24"  | 80   | W.N.           | 150# | R.F.    | NOTE 9 | 175x81 with draft and hinge |
| LT2         | 1   | Level Transmitter     | 2"   | 80   | W.N.           | 300# | R.F.    |        | 65x81                       |
| A2          | 1   | Pressure Relief Valve | 10"  | 80   | W.N.           | 150# | R.F.    |        | 280x81                      |

| GENERAL DATA                                                                                 |                                             |
|----------------------------------------------------------------------------------------------|---------------------------------------------|
| TAG No.                                                                                      | TK-2301 B                                   |
| QTY. OF TANKS                                                                                | 1                                           |
| STORAGE FLUID                                                                                | Fire Water Tank                             |
| CODE                                                                                         | API 650 (13th EDITION, ADD. 2021, APP.E.P.) |
| CAL. METHOD FOR SHELL                                                                        | ONE FOOT METHOD                             |
| ROOF TYPE                                                                                    | Rafter Supported Cone Roof                  |
| SPECIFIC GRAVITY                                                                             | 1                                           |
| CORROSION ALLOWANCE BOTTOM/ SHELL/ ROOF/ NOZZLES/ STRUCTURE (mm)                             | 1.6/1.6/1.6/1.6/1.6                         |
| SEISMIC DATA: S <sub>s</sub> /S <sub>1</sub> /F <sub>o</sub> /F <sub>v</sub> /Site Class/SUG | 1.1255/0.46/1/1.33/D/II                     |
| WIND VELOCITY / DESIGN WIND VELOCITY (Km/h)                                                  | 232/193                                     |
| DIMENSIONS (mm)                                                                              | 13000 I.D. x 9500 Height                    |
| TEMPERATURE: OPERATING / DESIGN (°C)                                                         | AMB. / 85                                   |
| INT.PRESSURE: OPERATING (MIN./MAX)/DESIGN (INT./EXT.) (bars)                                 | 0 / 1.0 / 1.0 / 1.0                         |
| EXT. DESIGN PRESSURE (bars)                                                                  | 0                                           |
| CAPACITY: NOMINAL / NET (m <sup>3</sup> )                                                    | 1260/1040                                   |
| FILLING/EMPTYING RATE (MAX): (m <sup>3</sup> /h)                                             | HOLD                                        |
| COOLING SYSTEM/FOAM SYSTEM                                                                   | NO/NO                                       |
| P.W.H.T.                                                                                     | NO                                          |
| FOUNDATION TYPE                                                                              | RING WALL                                   |
| APPLICABLE ANNEXES                                                                           | E                                           |
| CATHODIC PROTECTION(EXTERNAL/INTERNAL)                                                       | YES/NO                                      |
| DESIGN METAL TEMPERATURE (°C)                                                                | AMB.                                        |
| HLL / LLLL (mm)                                                                              | 8500 / 850                                  |
| BLANKETING (with nitrogen)                                                                   | NO                                          |
| FLAME ARRESTOR                                                                               | NO                                          |
| EMERGENCY VENT                                                                               | NO                                          |
| PRESSURE RELIEF VALVE                                                                        | YES                                         |
| GAUGE HATCH                                                                                  | YES                                         |

| THICKNESS SUMMARY                      |             |
|----------------------------------------|-------------|
| ANNUAL THICKNESS (mm)                  | 8           |
| BOTTOM THICKNESS (mm)                  | 8           |
| ROOF THICKNESS (mm)                    | 8           |
| SHELL THICKNESS C1/C2/C3/C4/C5/C6 (mm) | 8/8/6/6/6/6 |

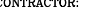
| INSPECTION & TEST               |                                         |
|---------------------------------|-----------------------------------------|
| VISUAL & DIMENSIONAL INSPECTION | YES                                     |
| HYDROSTATIC TEST                | YES (FILLED WITH WATER TO HLL+50mm H2O) |
| RADIOGRAPHY EXAM.               | YES(API650 - B.1.2)                     |
| VACUUM BOX TEST                 | YES                                     |
| AIR AND SOAP LEAK TEST          | YES                                     |
| IMPACT TEST                     | NO                                      |

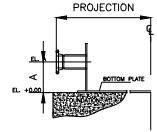
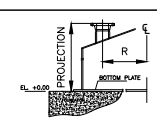
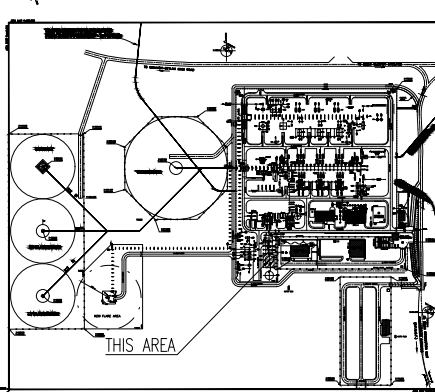
| SURFACE TREATMENT (PAINTING & INSULATION) |                 |
|-------------------------------------------|-----------------|
| INTERNAL (SHELL/ROOF/BOTTOM)              | YES/YES/YES     |
| EXTERNAL (SHELL/ROOF/BOTTOM/STRUCTURE)    | YES/YES/YES/YES |
| INSULATION                                | NO              |

| MATERIAL                        |                                                         |
|---------------------------------|---------------------------------------------------------|
| ROOF/SHELL/REINF. PAD           | SA283-C                                                 |
| BOTTOM/ANNUAL PLATE/WIND GIRDER | SA283-C/SA283-C/A36                                     |
| STRUCTURE/TOP ANGLE             | ST37                                                    |
| NOZZLE NECK(PLATE/PIPE)         | SA283-C/A-106G/B                                        |
| FLANGE(PLATE/FORCED)            | SA283-C/A-105                                           |
| EXTERNAL (BOLTS / NUTS)         | A 193-BM / A 194-BM (Hot Dip Galvanizing or Bichromate) |
| GASKET                          | Note 7(PITE for manhole gasket material)                |
| ANCHOR BOLT                     | F1554 Gr.36                                             |
| FITTINGS                        | A 234 WPB                                               |
| NAME PLATE BRACKET / NAME PLATE | A 283 Gr. C / A 240 316 L                               |
| INTERNAL (BOLTS / NUTS)         | A 193-BM / A 194-BM                                     |
| FIXED INTERNALS                 | A 106 Gr. B / A 283 Gr. C                               |
| FOAM AND WATER COOLING SYSTEM   | N/A                                                     |

| LOADING DATA                  |                |
|-------------------------------|----------------|
| EMPTY WEIGHT                  | 53 TON         |
| HYDROTEST WEIGHT              | 1323 TON       |
| OPERATING WEIGHT              | 1103 TON       |
| WIND SHEAR                    | 287 KN         |
| WIND MOMENT                   | 1861 KN.m      |
| SEISMIC SHEAR                 | 1430 KN        |
| SEISMIC MOMENT RING WALL/SLAB | 5198/7884 KN.m |

| REV. | DATE      | DESCRIPTION | BY         | DATE       | BY          | DATE |
|------|-----------|-------------|------------|------------|-------------|------|
| V00  | NOV. 2024 | IFA         | Drill M.E. | M.FAKHARAN | M.SADEGHIAN | **   |

|                                                                                       |  |                                                                                       |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| PROJECT NAME:                                                                         |  | BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES<br>GAS & GAS-CONDENSATE PIPELINES       |  |
| PROJECT NO.:                                                                          |  | 971020                                                                                |  |
| EPC CONTRACTOR:                                                                       |  | EPD/EPC CONTRACTOR (GC):                                                              |  |
|  |  |  |  |
| HIRGAN ENERGY - DESIGN & INSPECTION<br>COMPANIES                                      |  | PETROIRAN<br>DEVELOPMENT<br>COMPANY                                                   |  |

| NOTES                                                                                                                                                                                                                                                                                                                       |             |            |                                 |              |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|---------------------------------|--------------|----------|
| 1. ALL DIMENSION ARE IN mm, UNLESS OTHERWISE SPECIFIED.                                                                                                                                                                                                                                                                     |             |            |                                 |              |          |
| 2. ALL ELEVATIONS ARE MEASURED FROM TOP OF FOUNDATION.                                                                                                                                                                                                                                                                      |             |            |                                 |              |          |
| 3. SHELL AND ROOF NOZZLES PROJECTIONS ARE MEASURED FROM OUTSIDE SHELL BODY OR ROOF PLATE.                                                                                                                                                                                                                                   |             |            |                                 |              |          |
| 4. ROOF-SHELL JUNCTION IS ABOVE OF TOP ANGLE.                                                                                                                                                                                                                                                                               |             |            |                                 |              |          |
| 5. MINIMUM ANCHOR BOLT YIELD STRESS Sy =248 MPa.                                                                                                                                                                                                                                                                            |             |            |                                 |              |          |
| 6. ANCHOR BOLTS TO BE STRADDLED NORTH/SOUTH CL. UNLESS OTHERWISE NOTED.                                                                                                                                                                                                                                                     |             |            |                                 |              |          |
| 7. GASKET PROPERTIES:ASBESTOS FREE SPW, WIOR, RF, 4.5MM, SPIRAL:316L, CENTERING RING: C.S./INNER RING:316L,FILLER:GRAPHITE, ASME B16.20 FOR PIPING COMPONENT AND FLAT GASKET MATERIAL (WHICH CONFIRMED TO 'API650') SHALL BE NEOPRENE RUBBER SHEET CONSIDERED FOR ROOF AND SHELL MANHOLES.                                  |             |            |                                 |              |          |
| 8. SHELL NOZZLE PROJECTION HAS BEEN SPECIFIED FROM TANK CENTER LINE AND ROOF NOZZLE PROJECTION SHALL HAS BEEN SPECIFIED FROM UNDERSIDE OF BOTTOM PLATE                                                                                                                                                                      |             |            |                                 |              |          |
| 9. DUE TO THE CLASH BETWEEN THE NOZZLES (M3/L1) WITH THE RAFTER, IT IS NECESSARY TO MOVE THESE NOZZLES.                                                                                                                                                                                                                     |             |            |                                 |              |          |
| 10. DUE TO THE PROTECTION OF COURSES ABOVE 5 m OF THE TANK DURING ERECTION AGAINST THE WIND, IT IS RECOMMENDED TO USE A GIRDER CONNECTION.                                                                                                                                                                                  |             |            |                                 |              |          |
| HOLD ITEM(DATA MUST BE GIVEN BY CLIENT)                                                                                                                                                                                                                                                                                     |             |            |                                 |              |          |
| 1. IN THE FOLLOWING ITEMS, THERE IS A DISCREPANCY BETWEEN MECHANICAL DATA SHEET AND NOZZLE ORIENTATION & LADDER-PLATFORM, AND THE CLIENT SHOULD CLARIFY:                                                                                                                                                                    |             |            |                                 |              |          |
| - ROOF NOZZLES (LT2/A2)                                                                                                                                                                                                                                                                                                     |             |            |                                 |              |          |
| - SHELL NOZZLES (A3/M2/LT1/PSV)                                                                                                                                                                                                                                                                                             |             |            |                                 |              |          |
| 2. INTERNAL ATTACHMENT(REMOVE ABLE AND OTHER).                                                                                                                                                                                                                                                                              |             |            |                                 |              |          |
| 3. SAFETY NOZZLES DATA.                                                                                                                                                                                                                                                                                                     |             |            |                                 |              |          |
| 4. FILLING/EMPTYING RATE.                                                                                                                                                                                                                                                                                                   |             |            |                                 |              |          |
| LEGEND                                                                                                                                                                                                                                                                                                                      |             |            |                                 |              |          |
| <div>ELEVATION &amp; PROJECTION KEY PLANE(NOTE2,3,8)</div> <div></div> <div>SHELL NOZZLE KEY PLANE</div> <div></div> <div>ROOF NOZZLE KEY PLANE</div> |             |            |                                 |              |          |
| REFERENCE DOCUMENT                                                                                                                                                                                                                                                                                                          |             |            | DRG. No.                        |              |          |
| MECHANICAL DATA SHEETS FOR FIRE WATER STORAGE TANK                                                                                                                                                                                                                                                                          |             |            | BK-GCS-PEDCO-120-ME-DT-0017-D03 |              |          |
| Mechanical Design Criteria                                                                                                                                                                                                                                                                                                  |             |            | BK-GNRL-PEDCO-000-MR-DC-0001    |              |          |
| Specification for Painting                                                                                                                                                                                                                                                                                                  |             |            | BK-GNRL-PEDCO-000-PI-SP-0008    |              |          |
| Specification for Insulation                                                                                                                                                                                                                                                                                                |             |            | BK-GNRL-PEDCO-000-PI-SP-0019    |              |          |
| Specification for Lining                                                                                                                                                                                                                                                                                                    |             |            | BK-GNRL-PEDCO-000-PI-SP-0007    |              |          |
| KEY PLAN                                                                                                                                                                                                                                                                                                                    |             |            |                                 |              |          |
|                                                                                                                                                                                                                                        |             |            |                                 |              |          |
| ***                                                                                                                                                                                                                                                                                                                         | *****       | ** **      | *** ****                        | ** **        | *** **** |
| REV.                                                                                                                                                                                                                                                                                                                        | DESCRIPTION | BY         | DATE                            | BY           | DATE     |
|                                                                                                                                                                                                                                                                                                                             |             | CHECKED    |                                 | REV. APPR.   |          |
|                                                                                                                                                                                                                                        |             |            |                                 |              |          |
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| BINAK OILFIELD DEVELOPMENT<br>SURFACE FACILITIES<br>GAS CPMRESSOR STATION                                                                                                                                                                                                                                                   |             |            |                                 |              |          |
| DATE                                                                                                                                                                                                                                                                                                                        | SCALE       | DRAWING BY | CHECKED BY                      | PROJECT ENG. |          |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                                                                                                                                                                                                                           |             |            |                                 |              |          |
| APPROVED FOR CONSTRUCTION                                                                                                                                                                                                                                                                                                   |             | BY:        |                                 | DATE:        |          |
| BUDGET REF.                                                                                                                                                                                                                                                                                                                 | LOCATION    | SIZE CLASS | SERIAL NO.                      | SHEET        | REVISION |