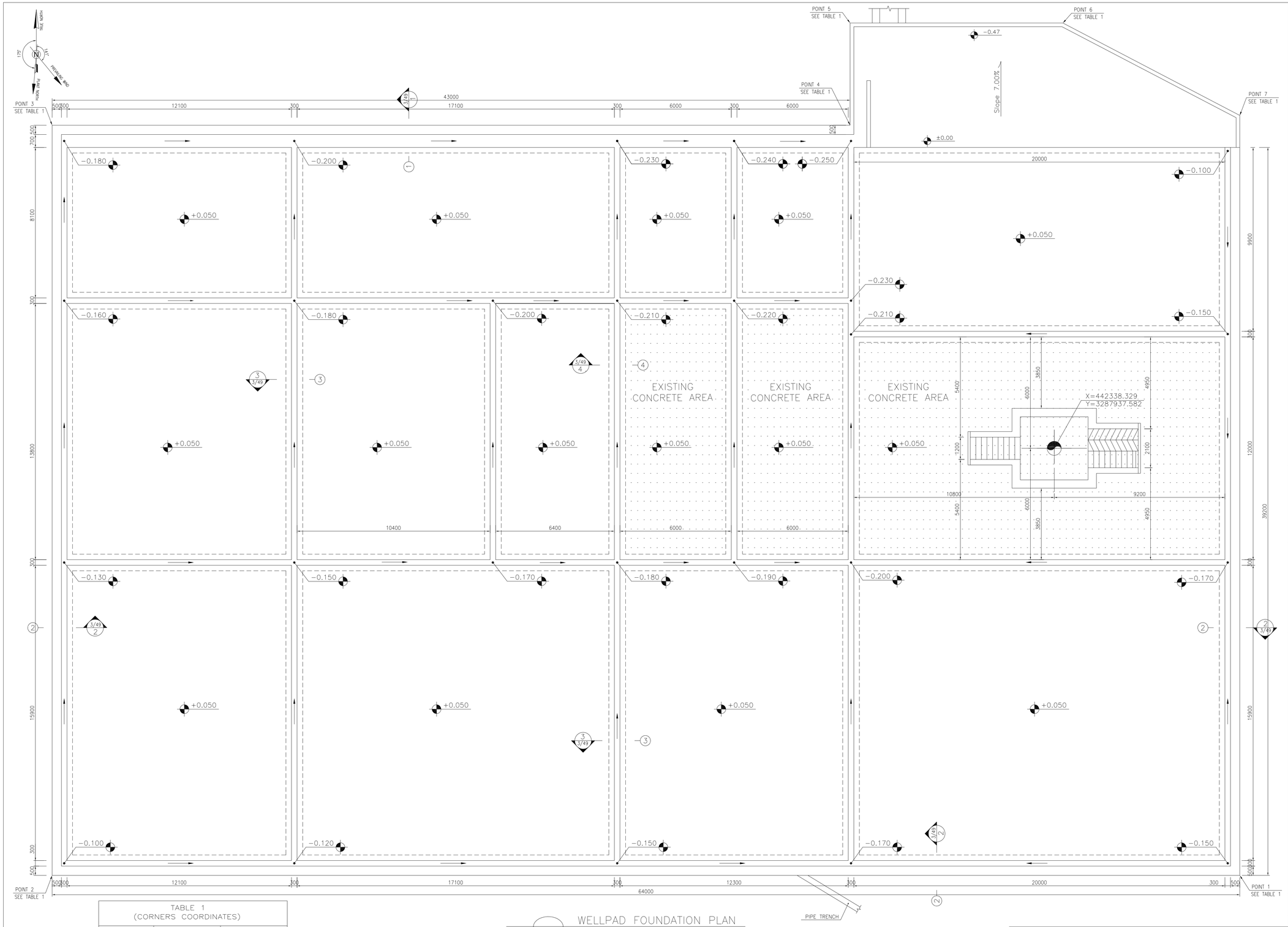


TABLE 1 (CORNERS COORDINATES)		
POINT 1	E=442346.460	N=3287913.857
POINT 2	E=442282.664	N=3287918.969
POINT 3	E=442285.891	N=3287959.239
POINT 4	E=442328.754	N=3287955.805
POINT 5	E=442329.193	N=3287961.287
POINT 6	E=442340.625	N=3287960.371
POINT 7	E=442349.729	N=3287954.651

1:100 WELLPAD FOUNDATION PLAN (1) FORMWORK

NOTES

1- ALL COORDINATES ARE IN METER.
2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.
3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)
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6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR, BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2
9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
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ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM: MSL
12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.
13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640
14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

±0.00 = +125.57(R.G.L.)MSL

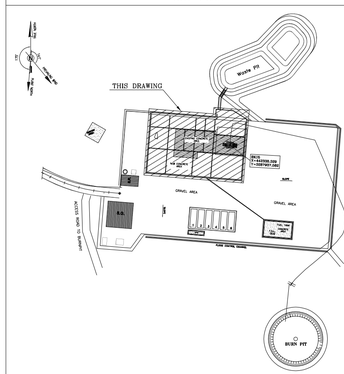
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION
T.O.W.	TOP OF WALL
T.O.C.	TOP OF CONCRETE
B.O.P.	BOTTOM OF PIPE
R.G.L.	ROUGH GRADING LEVEL
B.O.CH.	BOTTOM OF CHANNEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
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GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**	***.****	**	***.****
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES
PROJECT NO.: 971020
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR(GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15 WELLPAD FOUNDATION FORMWORK PLAN

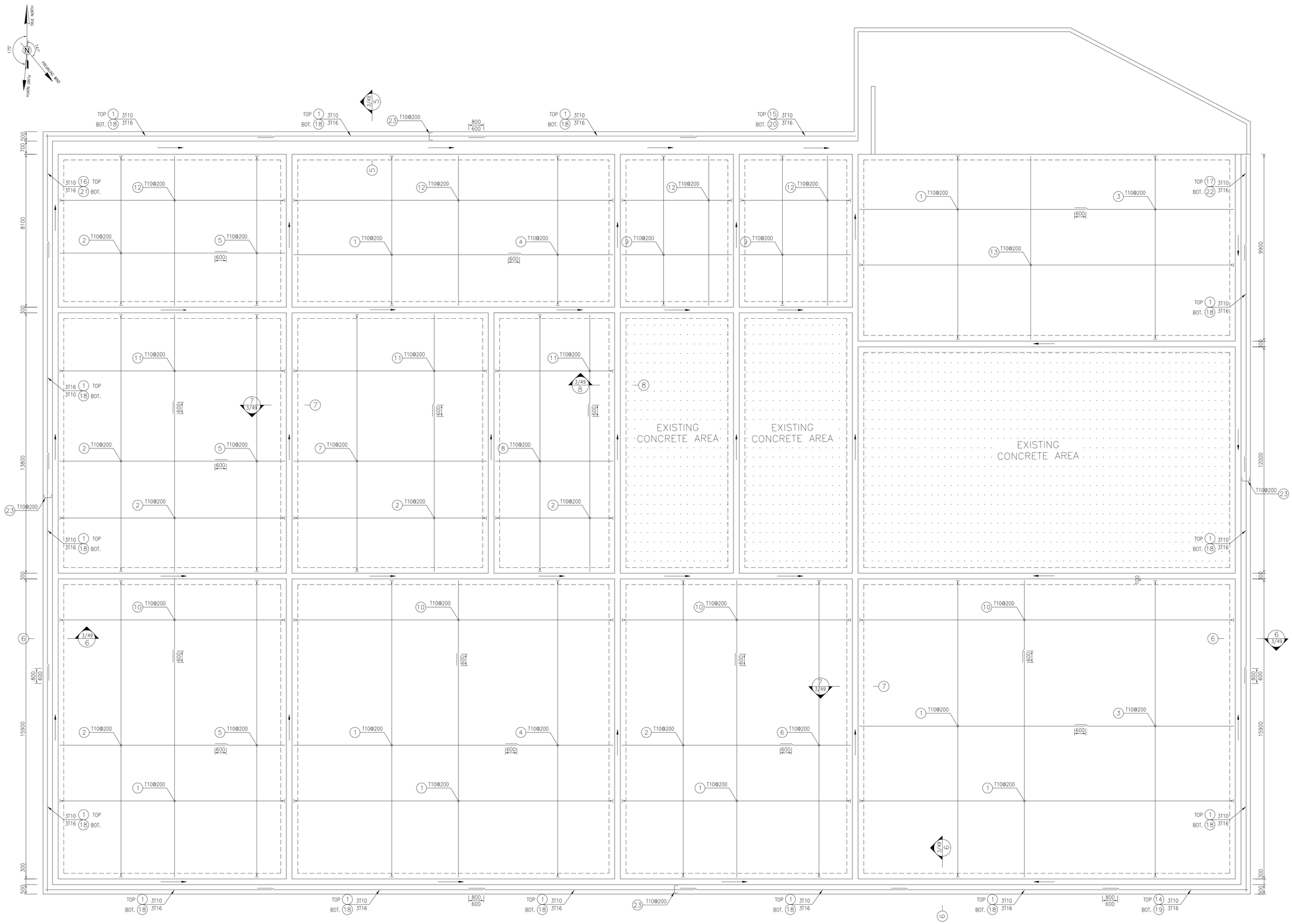
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	01 OF 49	D00

APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	01	D00



WELLPAD FOUNDATION PLAN
REINFORCEMENT
1:100 1

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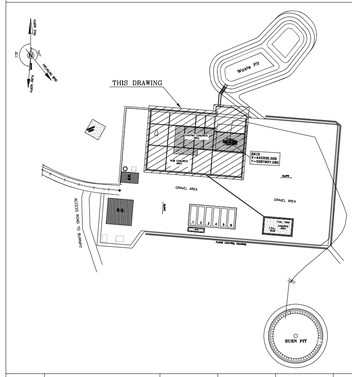
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EXISTING CONCRETE AREA		

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STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	** **

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
WELLPAD FOUNDATION REINFORCEMENT PLAN

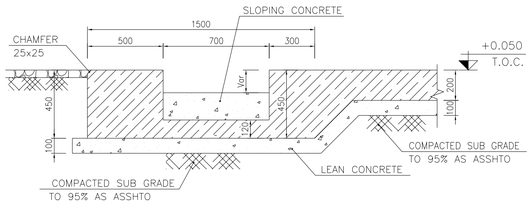
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

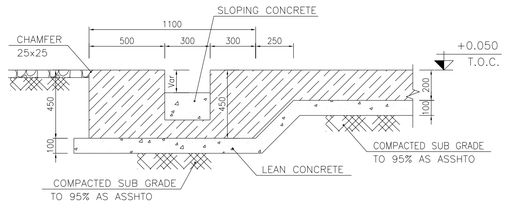
APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	03 OF 49	D00

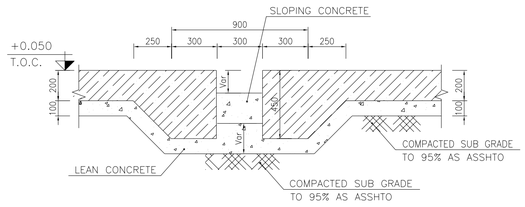
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	02	D00



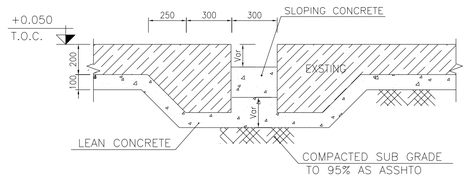
1:20 1/49 1 TYPICAL CHANNEL SECTION
IN BOUNDARY SIDE FORMWORK



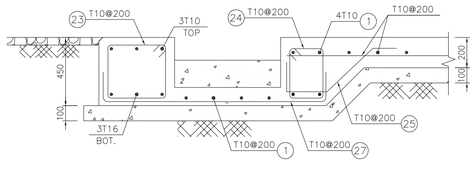
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IN BOUNDARY SIDE FORMWORK



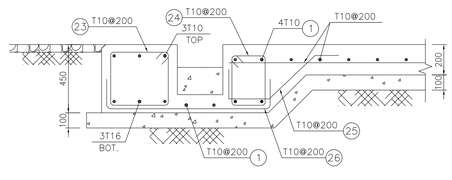
1:20 1/49 3 TYPICAL CHANNEL SECTION
IN MIDDLE SIDE FORMWORK



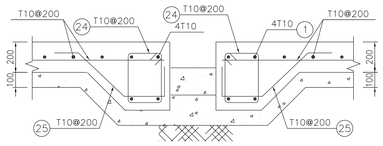
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IN MIDDLE SIDE FORMWORK



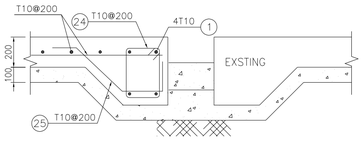
1:20 2/49 5 TYPICAL CHANNEL SECTION
IN BOUNDARY SIDE REINFORCEMENT



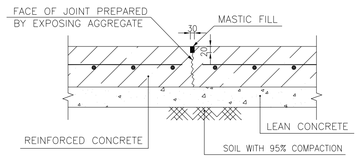
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IN BOUNDARY SIDE REINFORCEMENT



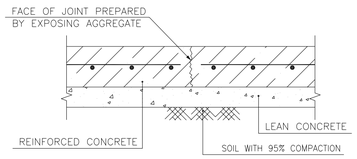
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IN MIDDLE SIDE REINFORCEMENT



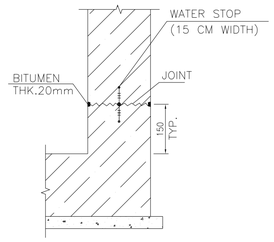
1:20 2/49 8 TYPICAL CHANNEL SECTION
IN MIDDLE SIDE REINFORCEMENT



N.T.S. - 9 TYPICAL CONTRACTION JOINT



N.T.S. - 10 TYPICAL CONSTRUCTION JOINT



N.T.S. - 11 TYPICAL DETAIL OF WATER STOP

BAR BENDING SCHEDULE – WELLPAD

Pos	Spec.	Shape	L/A	No.	T10	T16
1	T10	12000	12.00	805	9660.0	
2	T10	9000	9.00	398	3582.0	
3	T10	8450	8.45	122	1030.9	
4	T10	5550	5.55	113	627.15	
5	T10	3550	3.55	180	639.0	
6	T10	3750	3.75	76	285.0	
7	T10	10250	10.25	66	676.5	
8	T10	6250	6.25	66	412.5	
9	T10	5850	5.85	74	432.9	
10	T10	4350	4.35	295	1283.25	
11	T10	5250	5.25	142	745.5	
12	T10	7950	7.95	195	1550.25	
13	T10	9750	9.75	97	945.75	
14	T10	6800	6.80	45	306.0	
15	T10	8800	8.80	45	396.0	
16	T10	6000	6.00	45	270.0	
17	T10	4800	4.80	45	216.0	
18	T16	12000	12.00	42		504.00
19	T16	7800	7.80	3		23.4
20	T16	9400	9.40	3		28.2
21	T16	6600	6.60	3		19.80
22	T16	5400	5.40	3		16.2
23	T10	300, 350, 100	1.50	925	1387.5	
24	T10	250, 150, 100	1.00	2840	2840.0	
25	T10	150, 200, 400, 150	0.90	2840	2556.0	
26	T10	150, 950, 150	1.25	710	887.5	
27	T10	150, 1350, 150	1.65	210	346.5	
TOTAL LENGTH OR AREA (m/m2)					31076.20	591.60
UNIT WEIGTH (Kg)					0.617	1.578
WEIGTH (Kg)					19174.02	933.55
GRAND TOTAL (Kg)					20110	

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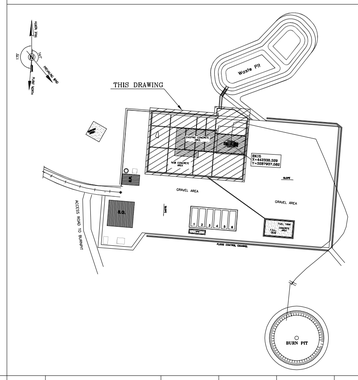
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STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



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D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل 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/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES
PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

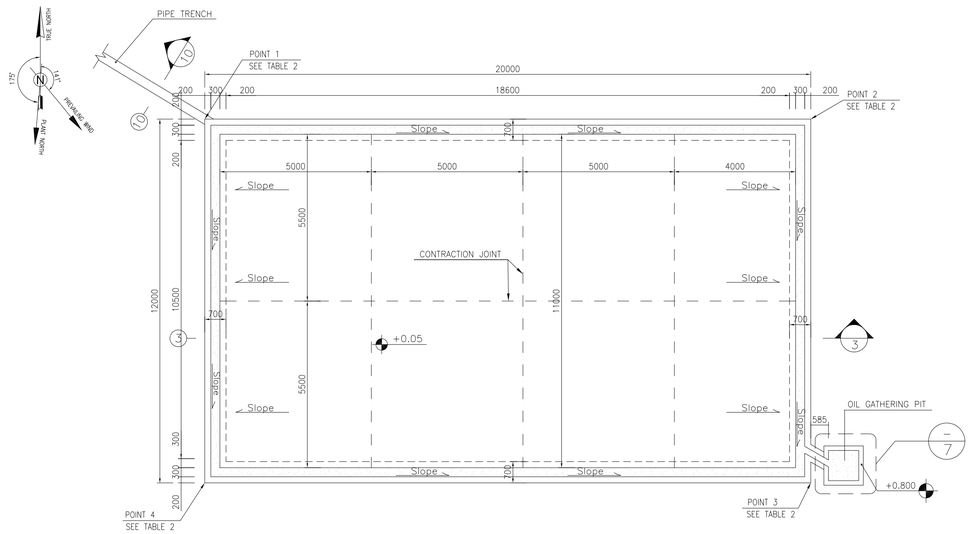
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
WELLPAD FOUNDATION DETAILS & SECTIONS

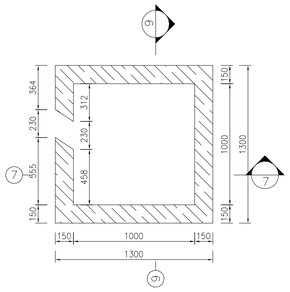
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APPROVED FOR CONSTRUCTION | BY: | DATE:

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AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	03 OF 49	D00

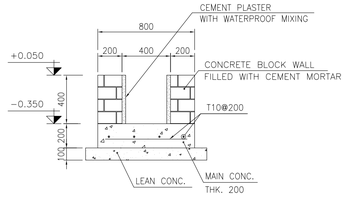
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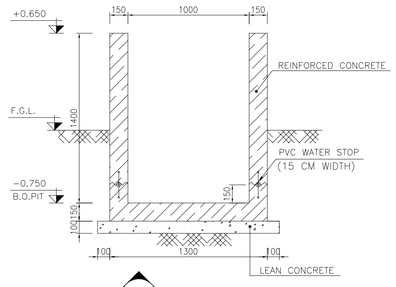
FUEL TANK AREA FOUNDATION
FORMWORK
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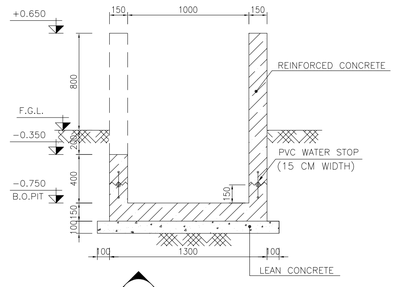
OIL GATHERING PIT
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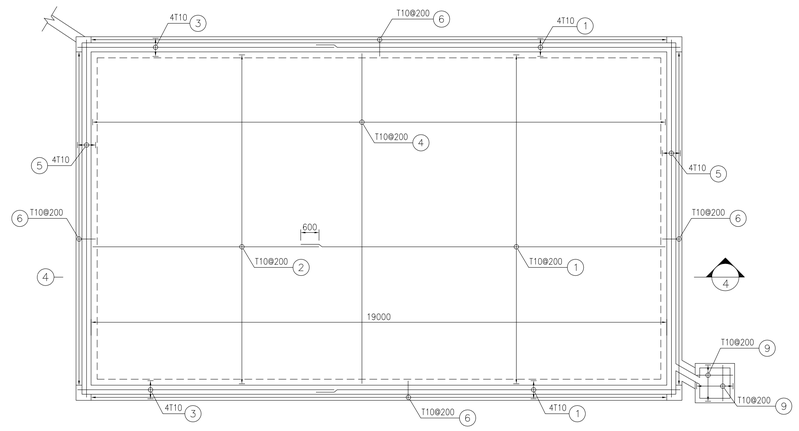
TYPICAL SECTION OF PIPE TRENCH
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FORMWORK
1:25 (6)



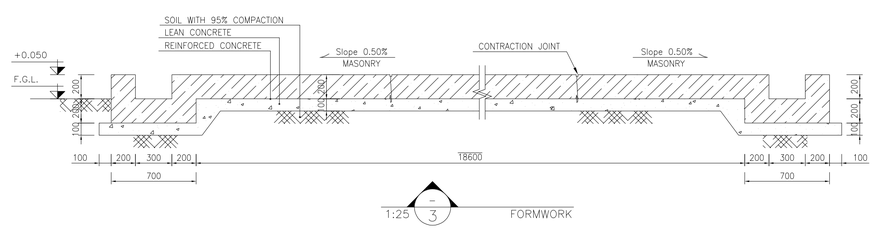
FORMWORK
1:25 (7)



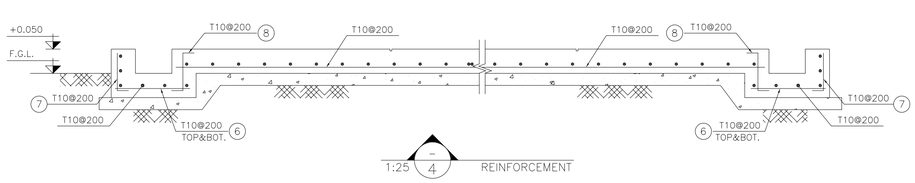
FUEL TANK AREA FOUNDATION
REINFORCEMENT
1:100 (2)

REINFORCEMENT
1:25 (8)

REINFORCEMENT
1:25 (9)



FORMWORK
1:25 (3)



REINFORCEMENT
1:25 (4)

BAR BENDING SCHEDULE – FUEL TANK					
Pos	Spec.	Shape	L/A	No.	T10
1	T10	12000	12.00	64	768.0
2	T10	7450	7.45	56	417.2
3	T10	8450	8.45	8	67.6
4	T10	10850	10.85	100	1085.0
5	T10	11850	11.85	8	94.8
6	T10	550	0.55	300	165.0
7	T10	150 250	0.40	300	120.0
8	T10	150 250 150	0.55	300	165.0
9	T10	150 1150 150	1.45	35	50.75
10	T10	150 1400	1.55	34	52.70
11	T10	150 400	0.55	14	7.70
TOTAL LENGTH OR AREA (m)					2993.75
UNIT WEIGTH (Kg/m)					0.617
WEIGTH (Kg)					1847.15
GRAND TOTAL (Kg)					1850

TABLE 2 (CORNERS COORDINATES)		
POINT 1	E=442360.492	N=3287888.655
POINT 2	E=442380.428	N=3287887.058
POINT 3	E=442379.470	N=3287875.096
POINT 4	E=442359.533	N=3287876.694

NOTES

1- ALL COORDINATES ARE IN METER.
2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.
3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)
5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(ON CYLINDRICAL SPECIMEN)
6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR,
BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2
9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM: MSL
12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.
13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640
14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

±0.00 = +125.57(R.G.L.)MSL

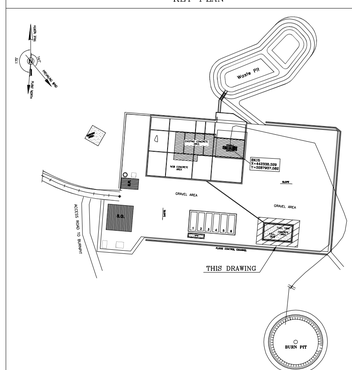
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION
T.O.W.	TOP OF WALL
T.O.C.	TOP OF CONCRETE
B.O.P.	BOTTOM OF PIPE
R.G.L.	ROUGH GRADING LEVEL
B.O.CH.	BOTTOM OF CHANNEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**	*** ****	**	*** ****
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل 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/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES
PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

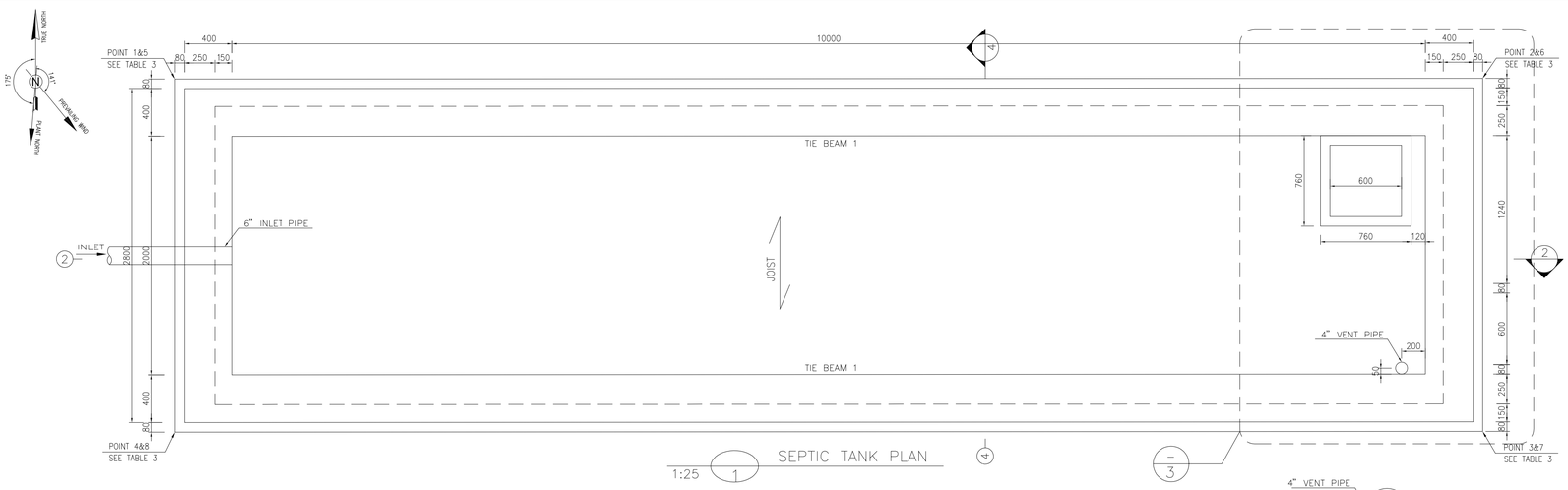
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
FUEL TANK FORMWORK & REINFORCEMENT PLAN-SECTION

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

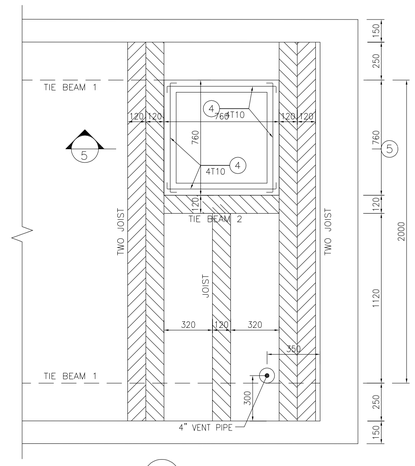
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AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	04 OF 49	D00

APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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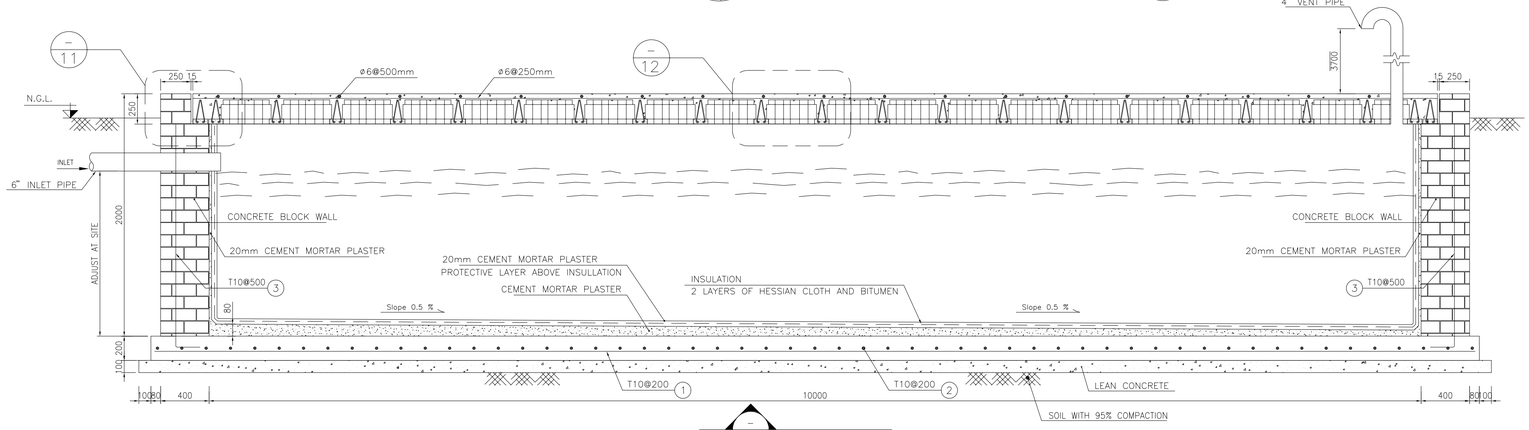


SEPTIC TANK PLAN

1:25 1

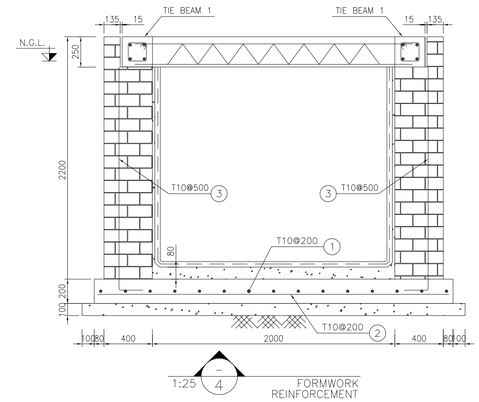


1:20 3



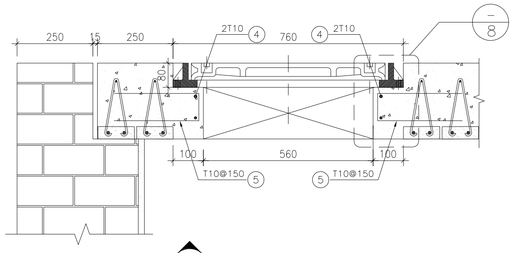
FORMWORK REINFORCEMENT

1:25 2

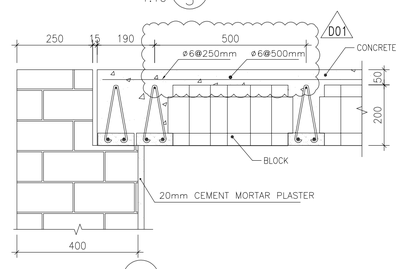


FORMWORK REINFORCEMENT

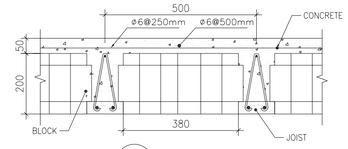
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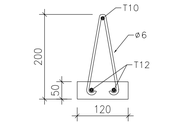
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1:10 11

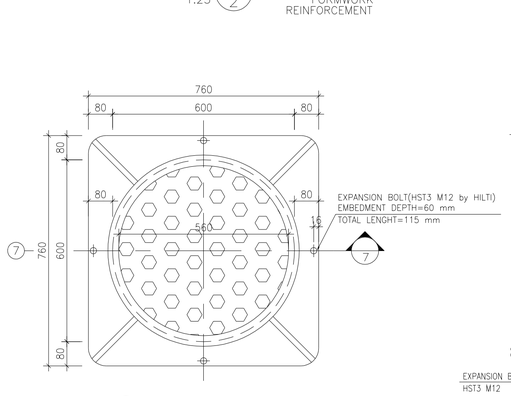


1:10 12



JOIST DETAIL

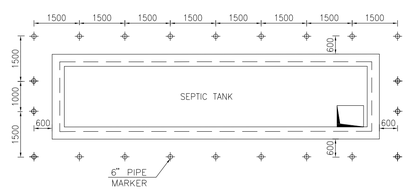
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DUCTILE IRON DETAIL

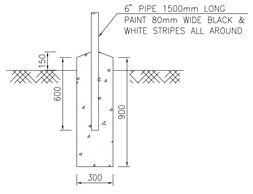
HEAVY DUTY DUCTILE IRON COATED FLAT COVERS AND FRAMES

1:10 6



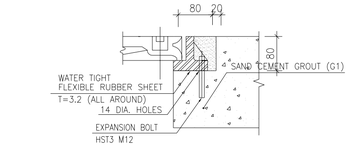
ARRANGMENT OF MARKERS

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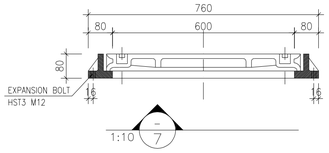


DETAIL OF MARKERS

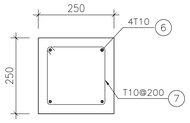
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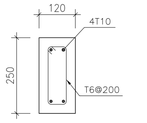


1:10 7



TIE BEAM 1

1:10 9



TIE BEAM 2

1:10 10

NOTES

1- ALL COORDINATES ARE IN METER.

2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.

3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)

5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(ON CYLINDRICAL SPECIMEN)

6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2

7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.

8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR, BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2

9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.

10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.

11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM:	MSL

12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.

13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640

14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

±0.00 = +125.57(R.G.L.)MSL

LEGEND AND ABBREVIATION

REINFORCED CONCRETE	T.O.F.	TOP OF FOUNDATION
LEAN CONCRETE	T.O.W.	TOP OF WALL
CEMENT BLOCK WALL	T.O.C.	TOP OF CONCRETE
GRAVEL	B.O.P.	BOTTOM OF PIPE
SUB GRADE	R.G.L.	ROUGH GRADING LEVEL
SLOPE	B.O.CH.	BOTTOM OF CHANNEL
EXISTING CONCRETE AREA		

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

BAR BENDING SCHEDULE - SEPTIC TANK

Pos	Spec.	Shape	L/A	No.	T10
1	T10	10800	10.80	15	162.0
2	T10	2800	2.80	55	154.0
3	T10	150 1850	2.00	52	104.0
4	T10	150 600 150	0.90	8	7.20
5	T10	90 280 280	0.65	20	13.0
6	T10	10200	10.20	8	81.60
7	T10	150 100 150	0.80	100	80.0
TOTAL LENGTH OR AREA (m/m2)					601.80
UNIT WEIGTH (Kg)					0.617
WEIGTH (Kg)					371.32
GRAND TOTAL (Kg)					380

KEY PLAN

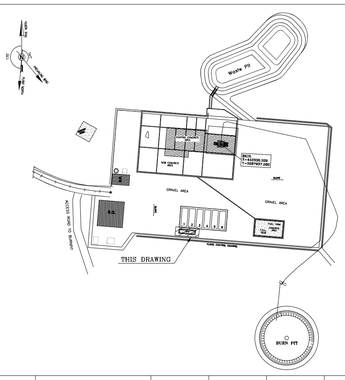


TABLE 3 (CORNERS COORDINATES)

POINT 1	E=442310.740	N=3287881.624
POINT 2	E=442321.660	N=3287880.686
POINT 3	E=442321.408	N=3287877.737
POINT 4	E=442310.488	N=3287878.674

REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	***.****	**	***.****
		CHECKED		REV. APPR.	
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES

PROJECT NO.: 971020

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

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

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

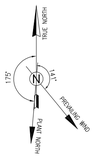
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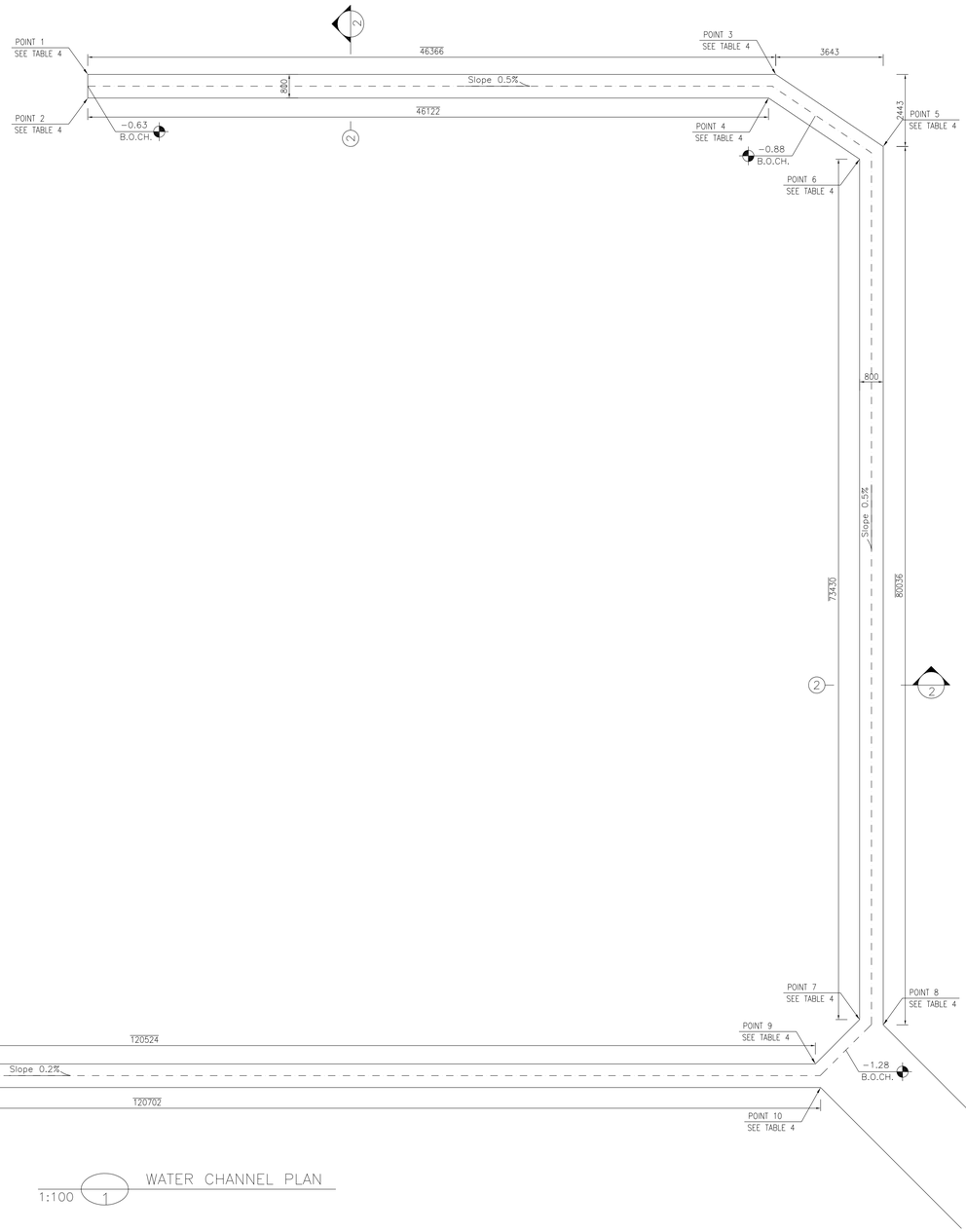
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
SEPTIC TANK FORMWORK & REINFORCEMENT PLAN-SECTION

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

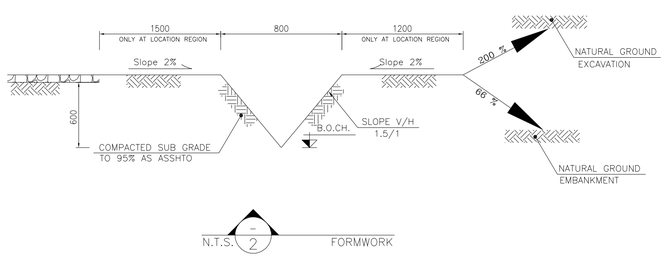
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	05 OF 49	D00	053-073-9184	F	4	S	708377	05	D00





1:100 WATER CHANNEL PLAN

TABLE 4 (CORNERS COORDINATES)		
POINT 1	E=442362.091	N=3287955.040
POINT 2	E=442362.027	N=3287954.242
POINT 3	E=442408.309	N=3287951.336
POINT 4	E=442408.002	N=3287950.558
POINT 5	E=442411.744	N=3287948.610
POINT 6	E=442410.913	N=3287948.249
POINT 7	E=442404.569	N=3287869.072
POINT 8	E=442405.352	N=3287868.830
POINT 9	E=442402.954	N=3287867.697
POINT 10	E=442403.068	N=3287866.885
POINT 11	E=442282.815	N=3287877.323
POINT 12	E=442282.751	N=3287876.526



N.T.S. FORMWORK

NOTES

1- ALL COORDINATES ARE IN METER.
2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.
3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)
5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(ON CYLINDRICAL SPECIMEN)
6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR,
BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS :300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT :75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME :48%±2
9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM: MSL
12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.
13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640
14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

±0.00 = +125.57(R.G.L.)MSL

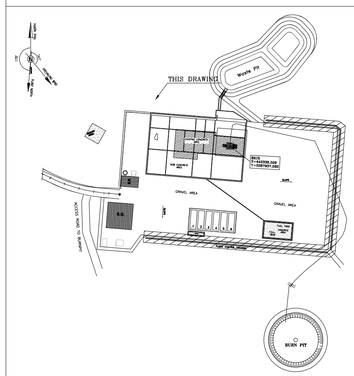
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION		
T.O.W.	TOP OF WALL		
T.O.C.	TOP OF CONCRETE		
B.O.P.	BOTTOM OF PIPE		
R.G.L.	ROUGH GRADING LEVEL		
B.O.CH.	BOTTOM OF CHANNEL		

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	**	***.****	**	***.****
		CHECKED		REV. APPR.	
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

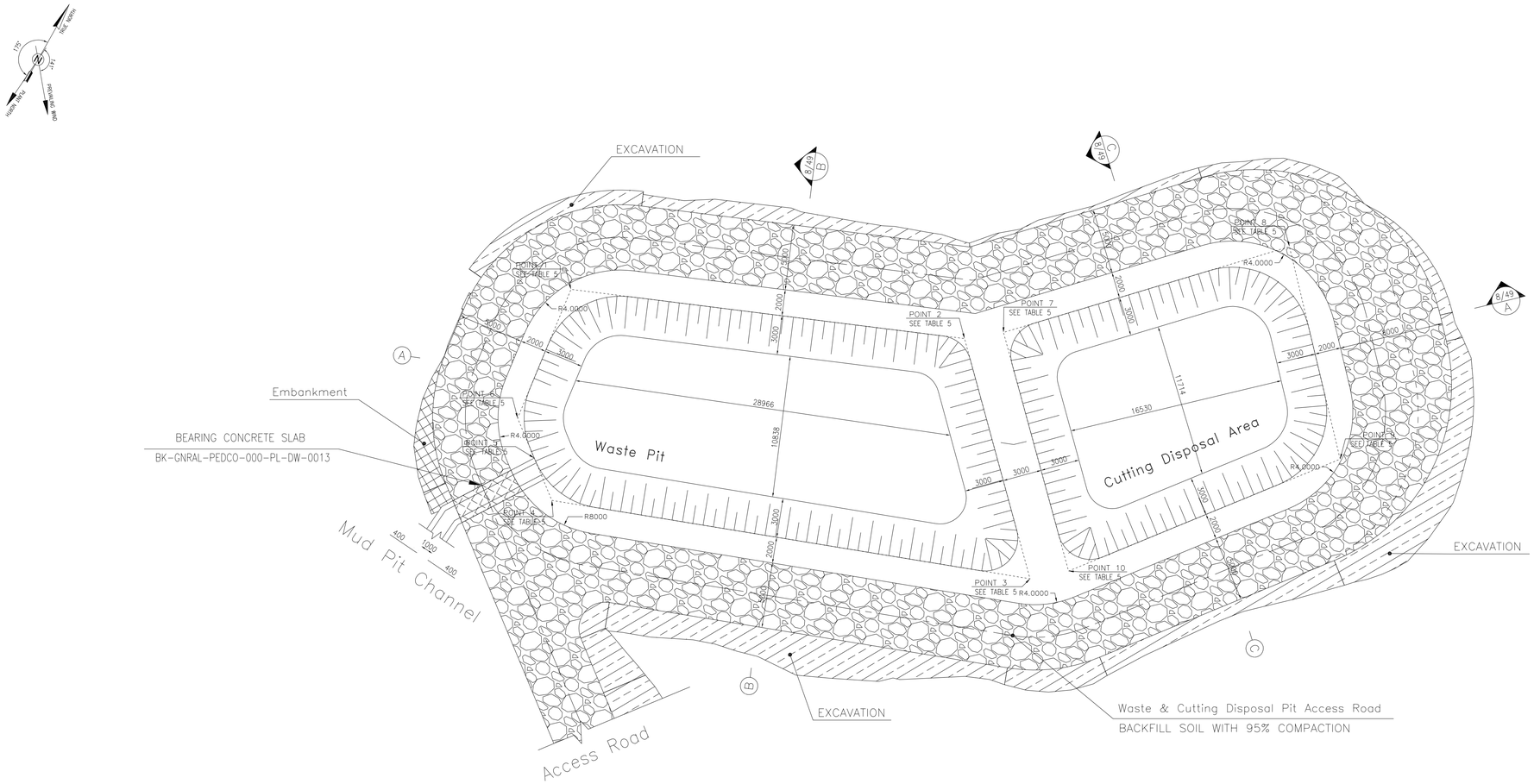
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
WATER CHANNEL FORMWORK PLAN-SECTION

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.
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	06 OF 49	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	06	D00



WASTE PIT & CUTTING DISPOSAL AREA PLAN

1:200 (1)

TABLE 5 (CORNERS COORDINATES)		
POINT 1	E=442331.461	N=3287988.605
POINT 2	E=442359.526	N=3288000.137
POINT 3	E=442372.931	N=3287986.600
POINT 4	E=442338.128	N=3287973.827
POINT 5	E=442335.360	N=3287975.985
POINT 6	E=442332.753	N=3287978.018
POINT 7	E=442361.890	N=3288002.014
POINT 8	E=442377.711	N=3288018.489
POINT 9	E=442389.086	N=3288006.243
POINT 10	E=442375.207	N=3287988.565

NOTES

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6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2

7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.

8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR,
BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS : 300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT : 75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME : 48%±2

9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.

10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM:	MSL

12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.

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14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

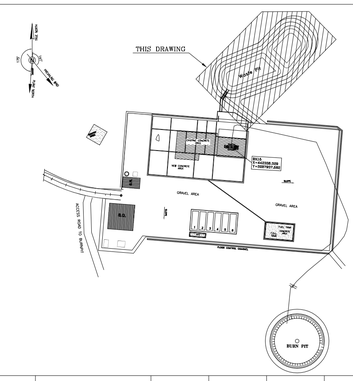
±0.00 = +125.57(R.G.L.)MSL

LEGEND AND ABBREVIATION

	REINFORCED CONCRETE	T.O.F.	TOP OF FOUNDATION
	LEAN CONCRETE	T.O.W.	TOP OF WALL
	CEMENT BLOCK WALL	T.O.C.	TOP OF CONCRETE
	GRAVEL	B.O.P.	BOTTOM OF PIPE
	SUB GRADE	R.G.L.	ROUGH GRADING LEVEL
	SLOPE	B.O.CH.	BOTTOM OF CHANNEL
	EXISTING CONCRETE AREA		

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
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GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

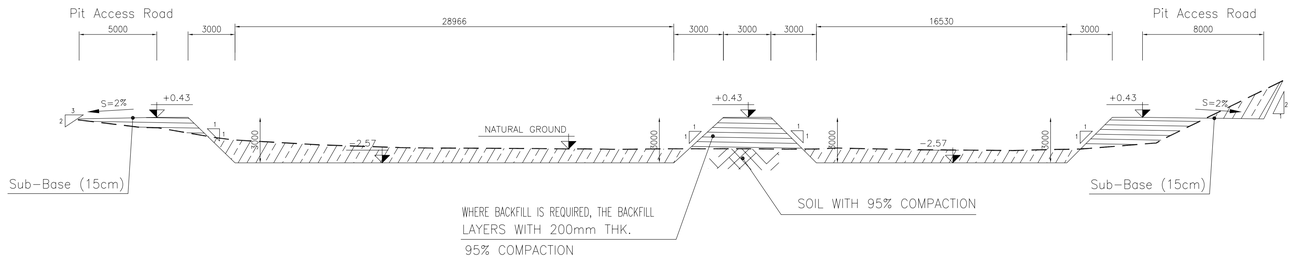
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
WASTE PIT & CUTTING DISPOSAL AREA PLAN

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

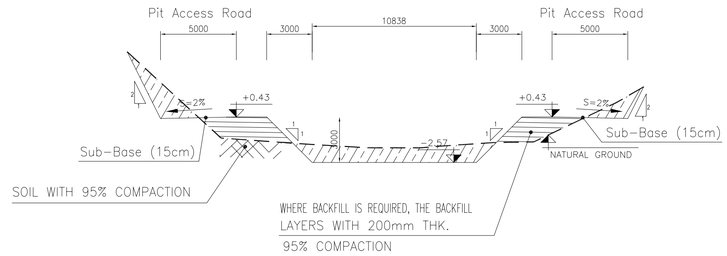
APPROVED FOR CONSTRUCTION | BY: | DATE:

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AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	07 OF 49	D00

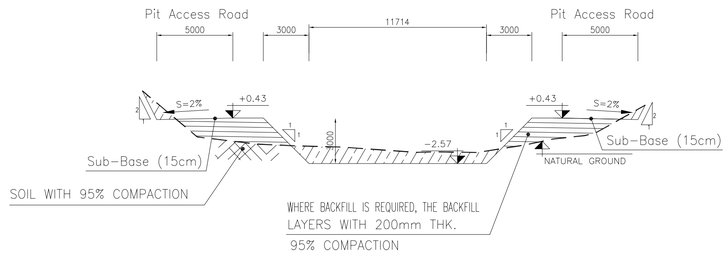
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	07	D00



7/49 A
1:200
WASTE PIT & CUTTING DISPOSAL AREA SECTION



7/49 B
1:200
WASTE PIT SECTION



7/49 C
1:200
CUTTING DISPOSAL AREA SECTION

Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (WastePIT & Cutting Disposal Area -BK15)	**1.000**	**1.000**	2089.39 Cu.M.	1311.50 Cu.M.
			TOTAL=3400.89 Cu.M.	

Cut and Fill Volume Table for WastePIT & Cutting Disopsal Area

NOTES

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VERTICAL DATUM:	MSL

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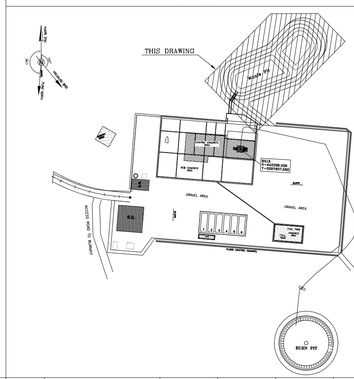
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION
T.O.W.	TOP OF WALL
T.O.C.	TOP OF CONCRETE
B.O.P.	BOTTOM OF PIPE
R.G.L.	ROUGH GRADING LEVEL
B.O.CH.	BOTTOM OF CHANNEL

REFERENCE DRAWING	DRG. No.
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STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
WASTE PIT & CUTTING DISPOSAL AREA SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	08 OF 49	D00

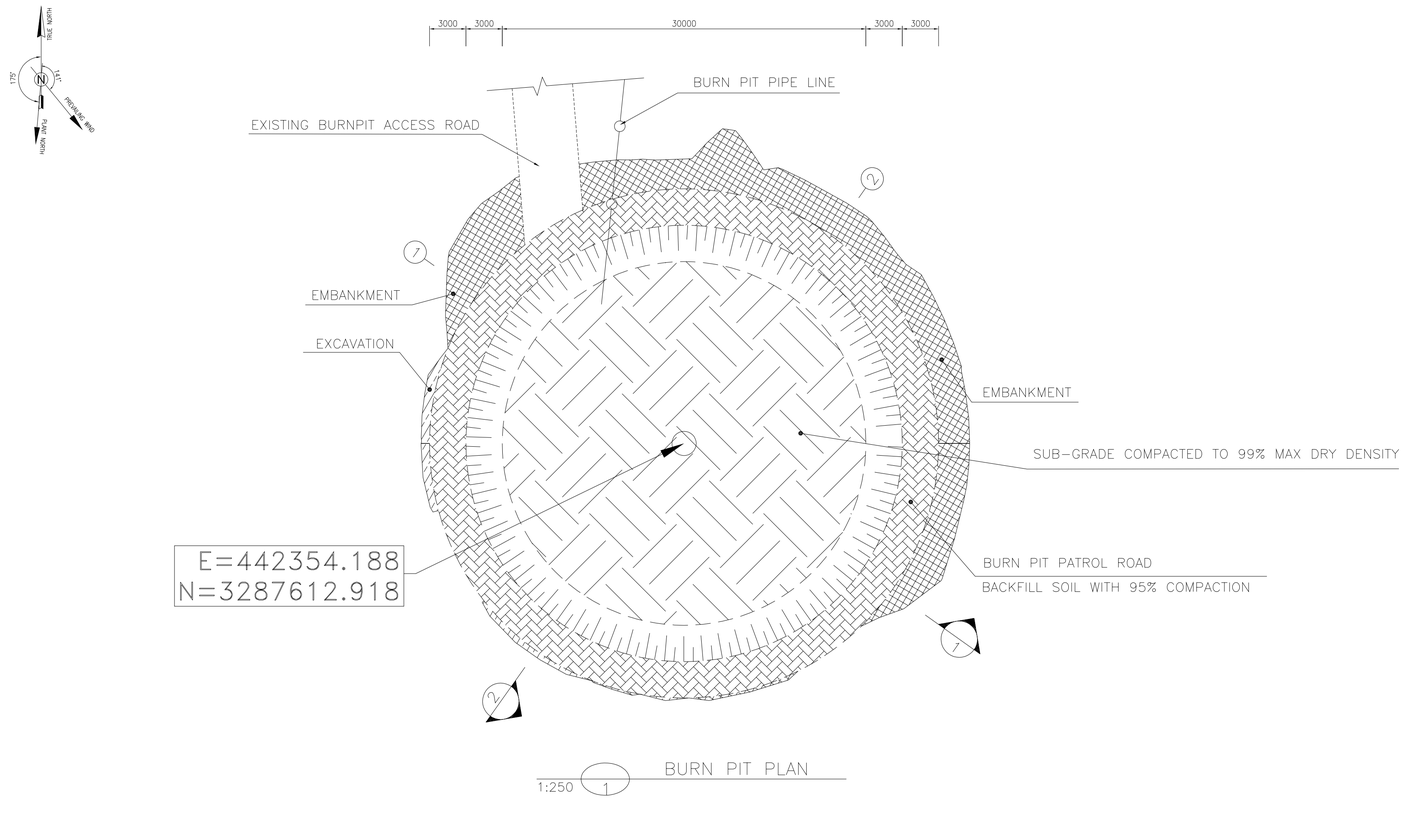
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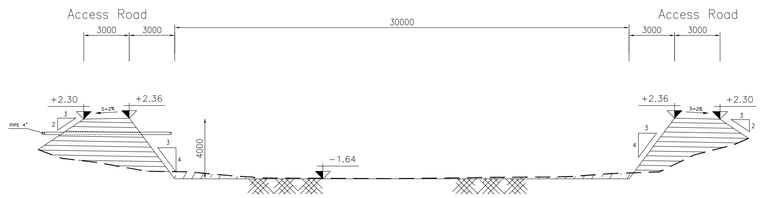
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

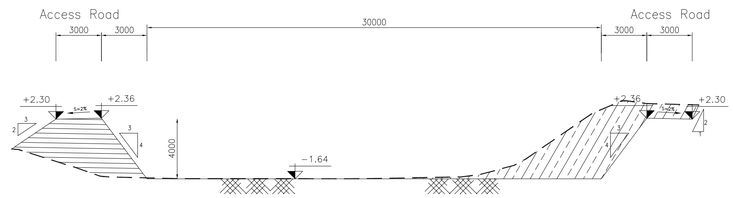
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	08	D00







Cut/Fill Summary

Name	Cut Factor	Fill Factor	Cut	Fill
ROUGH GRADING (BURNPIT-BK15)	**1.000**	**1.000**	851.05 Cu.M.	1281.74 Cu.M.
			TOTAL=2132.79 Cu.M.	

Cut and Fill Volume Table for Burn Pit Area

NOTES

1- ALL COORDINATES ARE IN METER.
2- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METER.
3- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
4- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 25 MPa(ON CYLINDRICAL SPECIMEN)
5- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(ON CYLINDRICAL SPECIMEN)
6- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm^2
7- MINIMUM FOUNDATION NET CONCRETE COVER SHALL BE 75 mm.
8- SPECIFICATIONS OF THERMO PLAST ACRYLIC COLOR,
BASED ON No.3758 NATIONAL STANDARD CODE:
DENSITY : 4.1-5.1 gr/cm3
THICKNESS :300-400 MICRON
GLOSS : DULL
SOLID MATERIAL PERCENTAGE BY WEIGHT :75%±2
SOLID MATERIAL PERCENTAGE BY VOLUME :48%±2
9- JOINT SEALANT MATERIALS SHALL BE WATER-RESISTANT POLYURETHANE OR SILICONE SCH AS "AEROLASTIC 1674" OR SIMILAR AND SHALL CONFORM TO BS-4254 FOR VERTICAL JOINTS IN WALLS & SHALL BE FOLLOWED ASTM D2499. THE FILLING MATERIAL MUST BE APPROVED BY THE WORKSHOP SUPERVISION.
10- CONTRACTION JOINTS SHALL BE CONSIDERED IN CONCRETE SLABS EVERY 6m.
11- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR(UTM)
VERTICAL DATUM: MSL
12- ACCORDING TO THE GEOTECHNICAL REPORT SHOULD BE USED OF CEMENT TYPE2.
13- THE EMULSION ON CONCRETE EXPOSED WITH SOIL SHOULD BE B-90-COAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVE COATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS. THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640
14- MUD CHANNEL AND WATER CHANNEL(AROUND THE CELLAR) SHALL BE DREDGED.

±0.00 = +125.57(R.G.L.)MSL

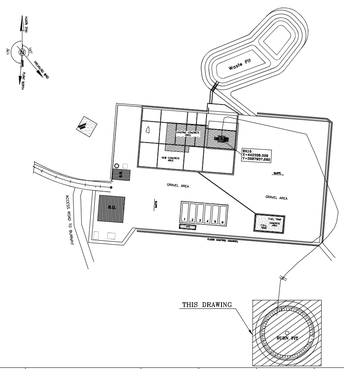
LEGEND AND ABBREVIATION

REINFORCED CONCRETE
LEAN CONCRETE
CEMENT BLOCK WALL
GRAVEL
SUB GRADE
SLOPE
EXISTING CONCRETE AREA

T.O.F.	TOP OF FOUNDATION	B.O.P.	BOTTOM OF PIPE
T.O.W.	TOP OF WALL	R.G.L.	ROUGH GRADING LEVEL
T.O.C.	TOP OF CONCRETE	B.O.CH.	BOTTOM OF CHANNEL

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR FENCE & GATE	BK-GNRAL-PEDCO-000-CV-SP-0003
GENERAL NOTES - STEEL STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0011
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
GENERAL CIVIL LAYOUT -BK15	BK-BK15-PEDCO-110-CV-PY-0001
ROUGH GRADING PLANS -BK15	BK-BK15-PEDCO-110-CV-PY-0003
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
STANDARD DETAILS OF MISCELLANEOUS ITEMS	BK-GNRAL-PEDCO-000-CV-DW-0040

KEY PLAN



REV.	DATE					
***	**********					
REV.	DESCRIPTION	BY	DATE	BY	DATE	
		CHECKED		REV. APPR.		
D00	JU.2023	IFC	R. BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK15 WELLHEAD FACILITIES
PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK15 WELLHEAD FACILITIES

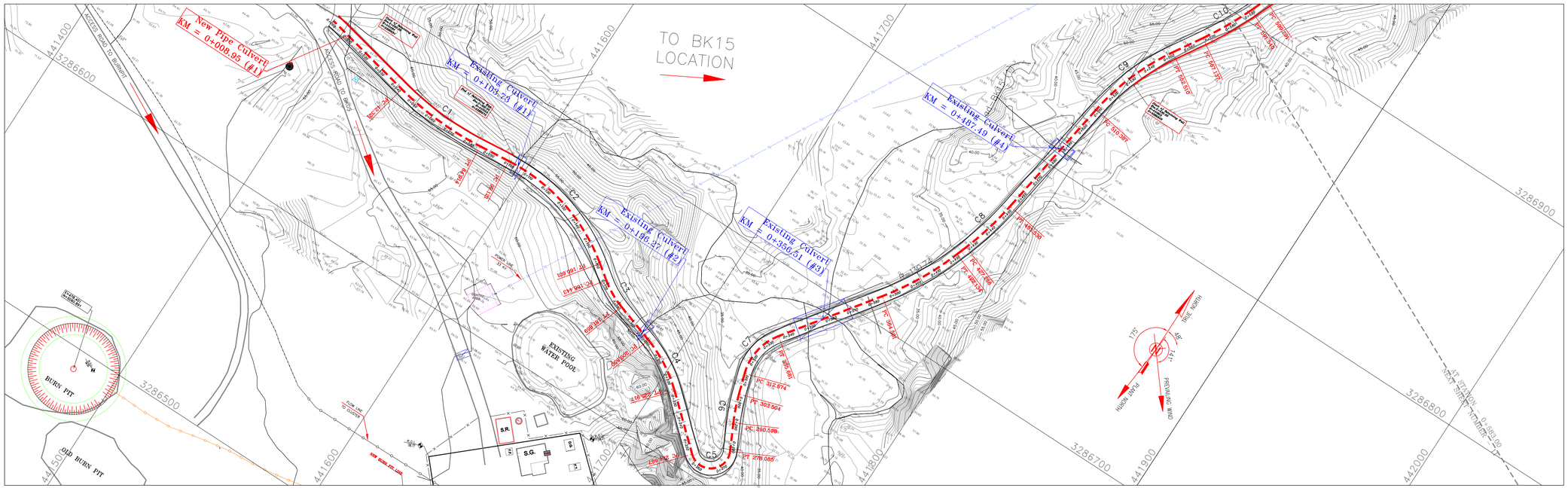
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS-BK15
BURN PIT PLAN-SECTIONS

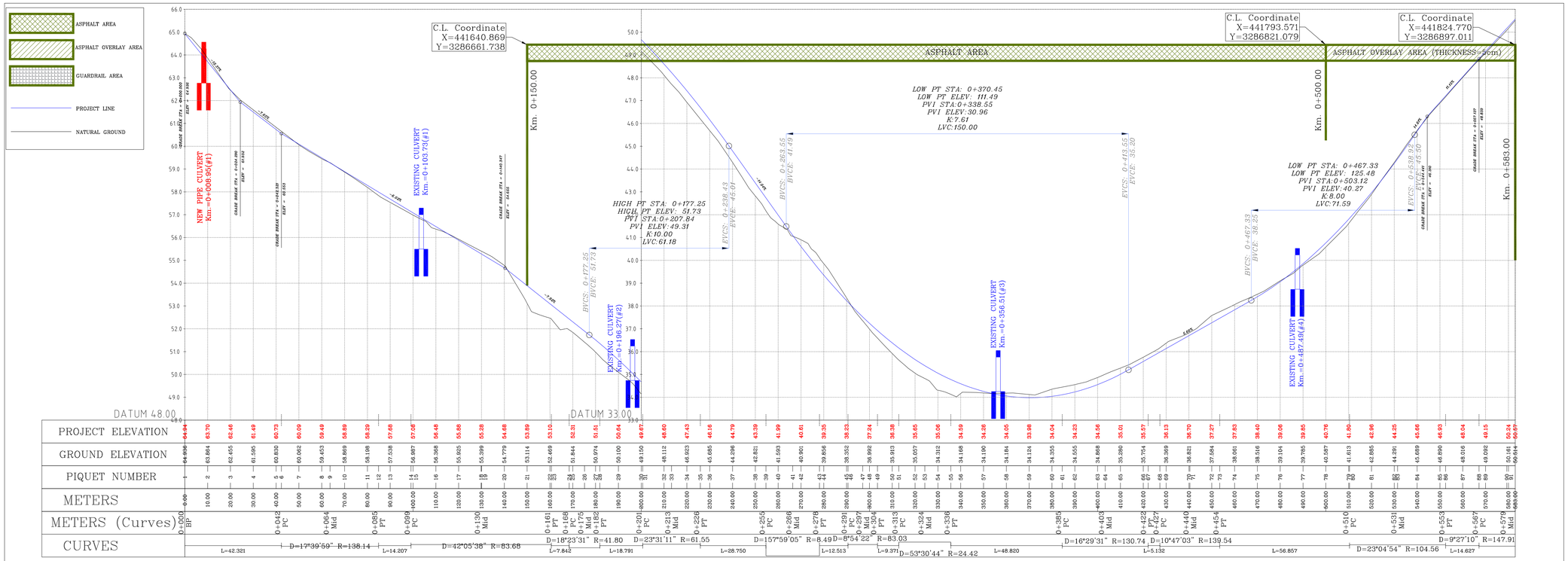
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-BK15-PEDCO-110-CV-DW-0001	09 OF 49	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	09	D00





NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001

8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

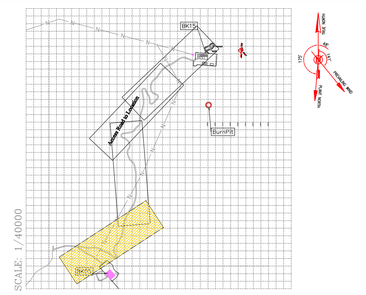
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK–BK15–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK15	BK–BK15–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK15	BK–BK15–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK15	BK–BK15–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK15	BK–BK15–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
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KEY PLAN



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

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D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK15–PEDCO–110–CV–DW–0001	10 OF 49	D00

BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
053–073–9184	F	4	S	708377	10	D00

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	138.14	42.59	S86° 58' 21.11"E	(441535.30,3286672.63)	(441577.66,3286670.38)
C2	83.68	61.48	S74° 45' 31.61"E	(441591.80,3286671.82)	(441649.79,3286656.02)
C3	41.80	13.42	S62° 54' 27.71"E	(441656.11,3286651.38)	(441668.00,3286645.30)
C4	61.55	25.27	S60° 20' 37.25"E	(441685.88,3286639.52)	(441707.69,3286627.11)
C5	8.49	23.42	N52° 25' 25.90"E	(441729.25,3286608.09)	(441742.46,3286618.26)
C6	83.03	12.91	N22° 06' 55.50"W	(441736.87,3286629.45)	(441732.01,3286641.39)
C7	24.42	22.81	N9° 05' 37.80"E	(441729.17,3286650.32)	(441732.64,3286672.03)
C8	139.54	26.26	N13° 57' 57.41"E	(441780.31,3286749.68)	(441786.64,3286775.13)
C9	104.56	42.12	N20° 06' 52.56"E	(441795.12,3286831.35)	(441809.51,3286870.64)
C10	147.91	24.40	N26° 55' 44.28"E	(441817.18,3286883.09)	(441828.22,3286904.82)

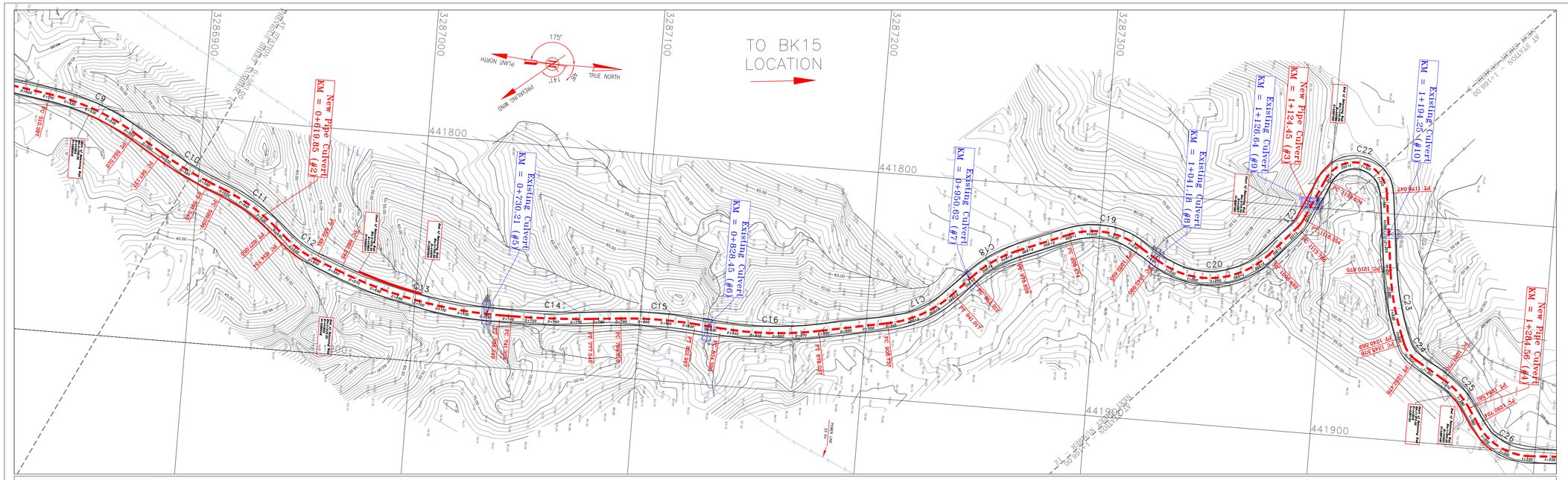
Station	Northing	Easting
0+000.00	3286681.32	441493.88
0+010.00	3286679.27	441503.67
0+020.00	3286677.21	441513.45
0+030.00	3286675.16	441523.24
0+040.00	3286673.10	441533.03
0+050.00	3286671.26	441542.85
0+060.00	3286670.11	441552.78
0+070.00	3286669.68	441562.77
0+080.00	3286669.97	441572.77
0+090.00	3286670.90	441582.72
0+100.00	3286671.91	441592.67
0+110.00	3286672.22	441602.66
0+120.00	3286671.33	441612.62
0+130.00	3286669.27	441622.39
0+140.00	3286666.06	441631.86
0+150.00	3286661.74	441640.87
0+160.00	3286656.37	441649.30
0+170.00	3286650.48	441657.38
0+180.00	3286645.91	441666.25
0+190.00	3286642.79	441675.75
0+200.00	3286639.72	441685.27

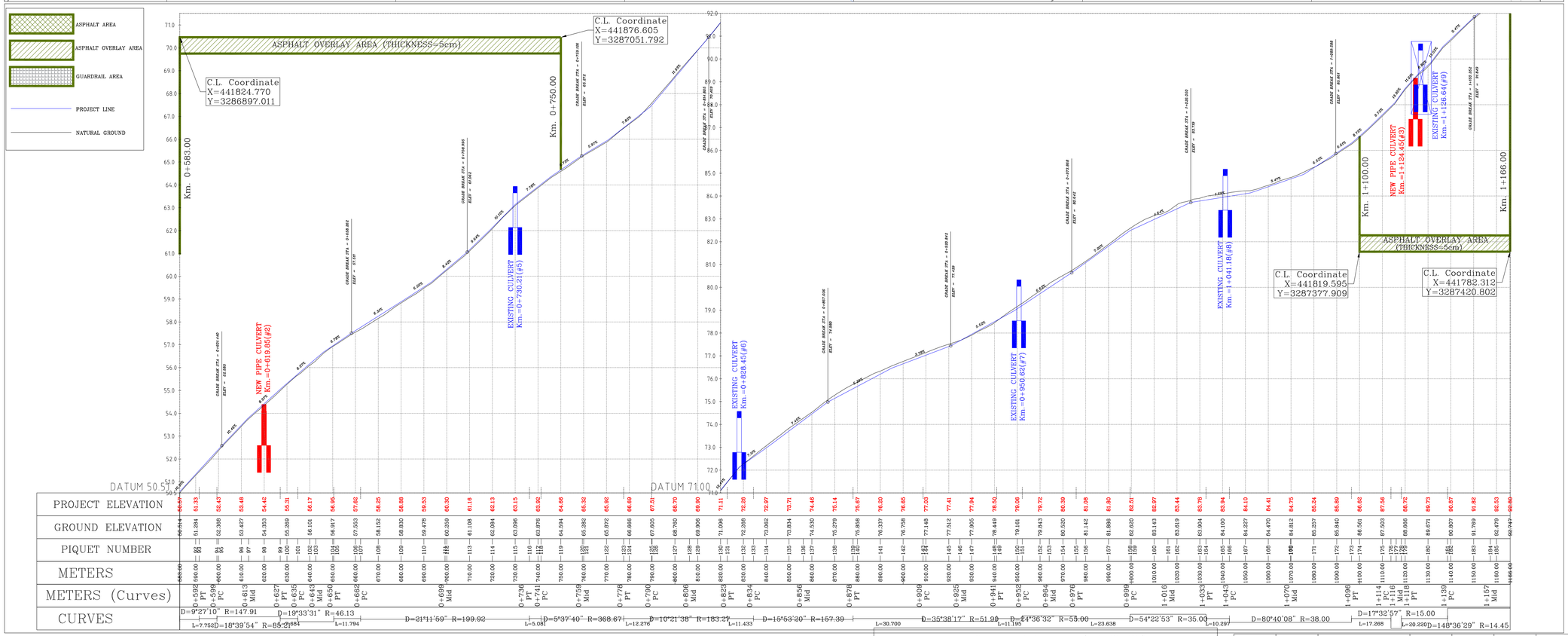
Station	Northing	Easting
0+210.00	3286635.98	441694.53
0+220.00	3286630.80	441703.07
0+230.00	3286624.41	441710.75
0+240.00	3286617.79	441718.25
0+250.00	3286611.18	441725.75
0+260.00	3286606.00	441734.06
0+270.00	3286610.47	441742.37
0+280.00	3286619.97	441741.61
0+290.00	3286628.91	441737.13
0+300.00	3286638.08	441733.14
0+310.00	3286647.58	441730.04
0+320.00	3286657.33	441728.02
0+330.00	3286667.08	441729.88
0+340.00	3286675.53	441735.17
0+350.00	3286683.64	441741.03
0+360.00	3286691.74	441746.89
0+370.00	3286699.85	441752.74
0+380.00	3286707.95	441758.60
0+390.00	3286716.13	441764.36
0+400.00	3286724.67	441769.55

Station	Northing	Easting
0+410.00	3286733.59	441774.07
0+420.00	3286742.83	441777.89
0+430.00	3286752.27	441781.20
0+440.00	3286761.87	441783.98
0+450.00	3286771.65	441786.07
0+460.00	3286781.53	441787.61
0+470.00	3286791.41	441789.10
0+480.00	3286801.30	441790.59
0+490.00	3286811.19	441792.08
0+500.00	3286821.08	441793.57
0+510.00	3286830.97	441795.06
0+520.00	3286840.78	441796.99
0+530.00	3286850.36	441799.84
0+540.00	3286859.62	441803.59
0+550.00	3286868.48	441808.22
0+560.00	3286877.01	441813.44
0+570.00	3286885.54	441818.66
0+580.00	3286894.32	441823.45

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5–BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6–BK5	441552.844	3286457.422	63.624
GPS1–BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106





NOTES

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VERTICAL DATUM: MSL
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– PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
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8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

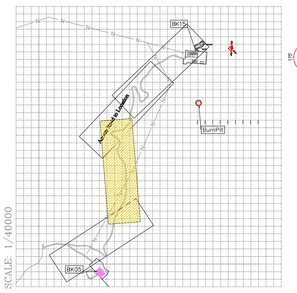
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
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Rough Grading Plan–BK15	BK–BK15–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
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Geotechnical Investigation Report – BK15	BK–BK15–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK15	BK–BK15–PEDCO–110–CV–MT–0001
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ABBREVIATION

PT= POINT OF TANGENT
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EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

DOO	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK15–PEDCO–110–CV–DW–0001	11 OF 49	D00

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BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
053–073–9184	F	4	S	708377	11	D00

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C11	85.21	27.76	N31° 32' 06.21"E	(441831.15,3286912.00)	(441845.61,3286935.55)
C12	46.13	15.75	N31° 05' 17.87"E	(441850.64,3286941.36)	(441858.73,3286954.78)
C13	199.92	73.97	N10° 42' 32.84"E	(441863.01,3286965.77)	(441876.68,3287038.04)
C14	368.67	36.21	N2° 42' 16.71"W	(441876.69,3287043.12)	(441874.98,3287079.28)
C15	183.27	33.14	N0° 20' 17.58"W	(441873.80,3287091.50)	(441873.61,3287124.59)
C16	157.39	43.65	N3° 06' 08.59"W	(441874.57,3287135.98)	(441872.22,3287179.43)
C17	51.90	32.28	N28° 51' 56.89"W	(441866.33,3287209.56)	(441851.00,3287237.38)
C18	55.00	23.62	N34° 22' 49.21"W	(441842.86,3287245.05)	(441829.62,3287264.40)
C19	35.00	33.22	N5° 06' 53.02"E	(441820.73,3287286.31)	(441823.59,3287318.17)
C20	38.00	53.50	N8° 01' 44.85"W	(441829.09,3287326.87)	(441822.22,3287375.58)
C21	15.00	4.59	N57° 08' 17.45"W	(441809.31,3287387.05)	(441805.47,3287389.53)
C22	14.45	37.47	N8° 23' 28.56"E	(441787.01,3287397.79)	(441791.07,3287425.31)

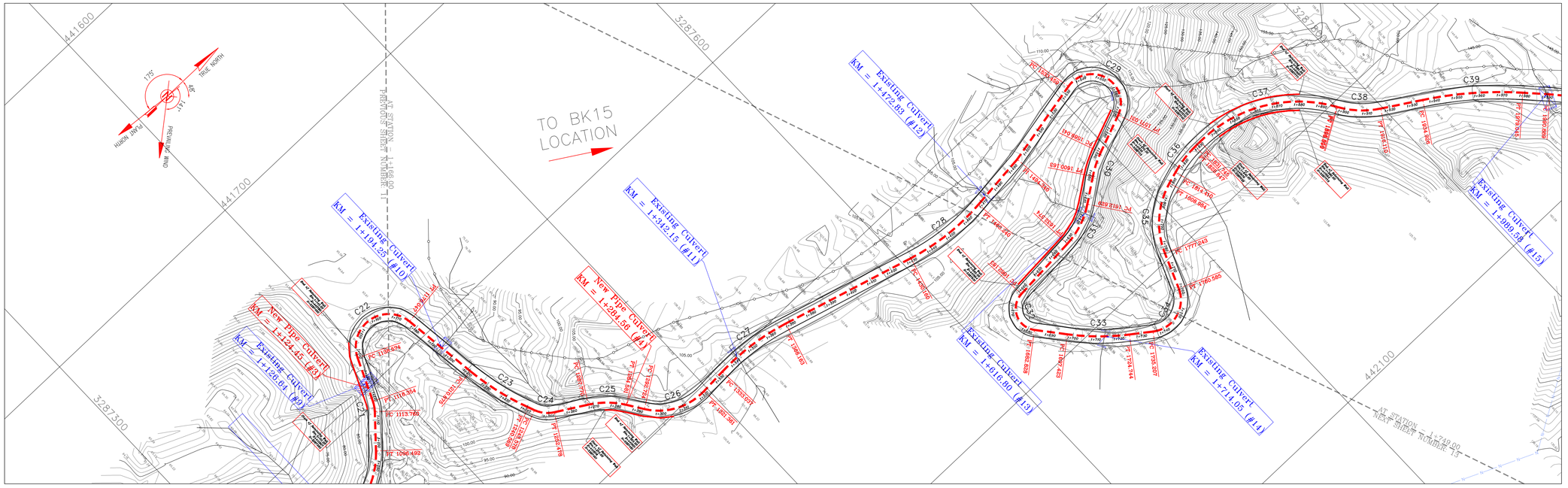
Station	Northing	Easting
0+590.00	3286903.40	441827.63
0+600.00	3286912.65	441831.42
0+610.00	3286921.63	441835.81
0+620.00	3286930.04	441841.22
0+630.00	3286937.78	441847.54
0+640.00	3286945.53	441853.85
0+650.00	3286954.34	441858.55
0+660.00	3286963.65	441862.19
0+670.00	3286973.02	441865.68
0+680.00	3286982.55	441868.71
0+690.00	3286992.21	441871.27
0+700.00	3287002.00	441873.33
0+710.00	3287011.87	441874.91
0+720.00	3287021.81	441875.99
0+730.00	3287031.79	441876.57
0+740.00	3287041.79	441876.69
0+750.00	3287051.79	441876.60
0+760.00	3287061.79	441876.25
0+770.00	3287071.77	441875.63
0+780.00	3287081.73	441874.75
0+790.00	3287091.68	441873.78

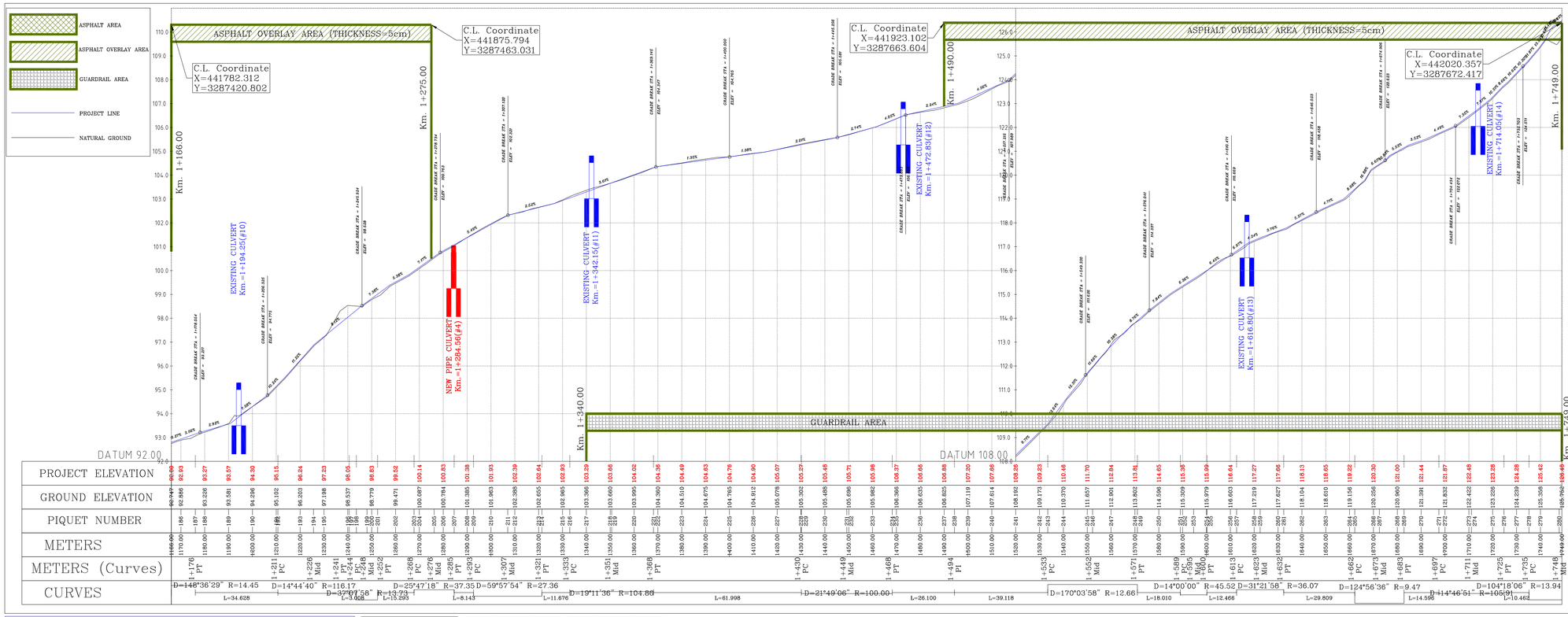
Station	Northing	Easting
0+800.00	3287101.66	441873.10
0+810.00	3287111.65	441872.97
0+820.00	3287121.64	441873.38
0+830.00	3287131.61	441874.20
0+840.00	3287141.58	441874.95
0+850.00	3287151.58	441875.12
0+860.00	3287161.57	441874.65
0+870.00	3287171.50	441873.55
0+880.00	3287181.35	441871.84
0+890.00	3287191.17	441869.92
0+900.00	3287200.98	441868.01
0+910.00	3287210.80	441866.08
0+920.00	3287220.29	441863.00
0+930.00	3287229.03	441858.16
0+940.00	3287236.67	441851.73
0+950.00	3287243.54	441844.46
0+960.00	3287250.78	441837.59
0+970.00	3287259.12	441832.09
0+980.00	3287268.26	441828.05
0+990.00	3287277.53	441824.29
1+000.00	3287286.80	441820.54

Station	Northing	Easting
1+010.00	3287296.51	441818.29
1+020.00	3287306.45	441818.87
1+030.00	3287315.84	441822.23
1+040.00	3287324.34	441827.49
1+050.00	3287333.11	441832.27
1+060.00	3287342.77	441834.71
1+070.00	3287352.74	441834.56
1+080.00	3287362.33	441831.82
1+090.00	3287370.87	441826.68
1+100.00	3287377.91	441819.60
1+110.00	3287384.55	441812.12
1+120.00	3287390.31	441803.96
1+130.00	3287394.29	441794.84
1+140.00	3287398.43	441785.74
1+150.00	3287405.89	441779.38
1+160.00	3287415.69	441779.25

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5–BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6–BK5	441552.844	3286457.422	63.624
GPS1–BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106





NOTES

1–ALL COORDINATES AND ELEVATIONS ARE IN METER.

2–ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3–GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

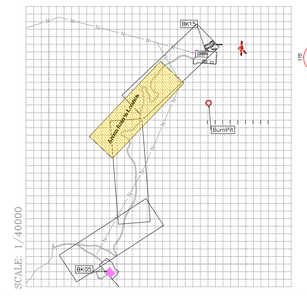
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C23	116.17	29.89	N75° 19' 23.15"E	(441825.41,3287429.71)	(441854.25,3287437.26)
C24	13.73	8.90	N49° 23' 04.40"E	(441857.04,3287438.39)	(441863.68,3287444.08)
C25	37.35	16.81	N43° 42' 44.55"E	(441871.51,3287457.22)	(441883.03,3287469.27)
C26	27.36	28.64	N26° 37' 26.75"E	(441889.83,3287473.75)	(441902.09,3287498.20)
C27	104.86	35.13	N6° 14' 17.97"E	(441901.40,3287509.85)	(441905.20,3287544.61)
C28	100.00	38.08	N4° 55' 33.16"E	(441922.12,3287604.25)	(441925.37,3287641.96)
C29	12.66	37.57	N73° 32' 22.21"E	(441914.85,3287706.25)	(441939.04,3287713.40)
C30	45.52	11.12	S28° 25' 39.10"E	(441945.62,3287696.64)	(441950.90,3287686.88)
C31	36.07	19.75	S19° 44' 40.40"E	(441958.13,3287676.72)	(441964.72,3287658.37)
C32	9.47	20.64	S66° 31' 59.63"E	(441966.83,3287628.63)	(441982.23,3287621.95)
C33	105.91	27.32	N43° 36' 16.93"E	(441993.57,3287631.13)	(442012.36,3287650.86)
C34	13.94	25.38	N15° 56' 11.46"W	(442018.54,3287659.30)	(442012.50,3287680.47)

Station	Northing	Easting
1+170.00	3287423.32	441785.40
1+180.00	3287425.81	441794.99
1+190.00	3287427.08	441804.91
1+200.00	3287428.35	441814.83
1+210.00	3287429.62	441824.74
1+220.00	3287431.26	441834.61
1+230.00	3287433.75	441844.29
1+240.00	3287437.05	441853.73
1+250.00	3287442.08	441862.23
1+260.00	3287450.54	441867.53
1+270.00	3287459.10	441872.71
1+280.00	3287466.52	441879.37
1+290.00	3287472.25	441887.56
1+300.00	3287478.51	441895.31
1+310.00	3287487.04	441900.41
1+320.00	3287496.84	441902.13
1+330.00	3287506.82	441901.58
1+340.00	3287516.81	441901.23
1+350.00	3287526.79	441901.78
1+360.00	3287536.68	441903.28
1+370.00	3287546.37	441905.70

Station	Northing	Easting
1+380.00	3287556.00	441908.43
1+390.00	3287565.62	441911.16
1+400.00	3287575.24	441913.89
1+410.00	3287584.86	441916.62
1+420.00	3287594.48	441919.35
1+430.00	3287604.10	441922.08
1+440.00	3287613.84	441924.34
1+450.00	3287623.75	441925.61
1+460.00	3287633.74	441925.89
1+470.00	3287643.71	441925.19
1+480.00	3287653.66	441924.14
1+490.00	3287663.60	441923.10
1+500.00	3287673.47	441921.52
1+510.00	3287683.27	441919.53
1+520.00	3287693.07	441917.54
1+530.00	3287702.87	441915.54
1+540.00	3287712.71	441915.23
1+550.00	3287720.09	441921.59
1+560.00	3287720.77	441931.31
1+570.00	3287714.34	441938.63
1+580.00	3287705.05	441942.32

Station	Northing	Easting
1+590.00	3287695.75	441945.98
1+600.00	3287687.01	441950.81
1+610.00	3287678.86	441956.61
1+620.00	3287670.32	441961.76
1+630.00	3287660.73	441964.47
1+640.00	3287650.76	441965.26
1+650.00	3287640.79	441965.97
1+660.00	3287630.81	441966.67
1+670.00	3287621.91	441970.36
1+680.00	3287620.52	441979.80
1+690.00	3287626.46	441987.80
1+700.00	3287632.78	441995.55
1+710.00	3287639.61	442002.85
1+720.00	3287647.10	442009.47
1+730.00	3287655.10	442015.47
1+740.00	3287663.58	442020.66

Coordinate of Bench Marks (UTM–ZONE 39N)

Name	Easting (m)	Northing(m)	Elevation (m)
NCC	441115.846	3287505.650	78.593
BM71	442252.211	3287944.656	142.663
BM70	442425.828	3287899.162	129.809
GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

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

D00	JUN.2023	IFC	R.BEHLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 ACCESS ROAD PLAN AND PROFILE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	12 OF 49	D00

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

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

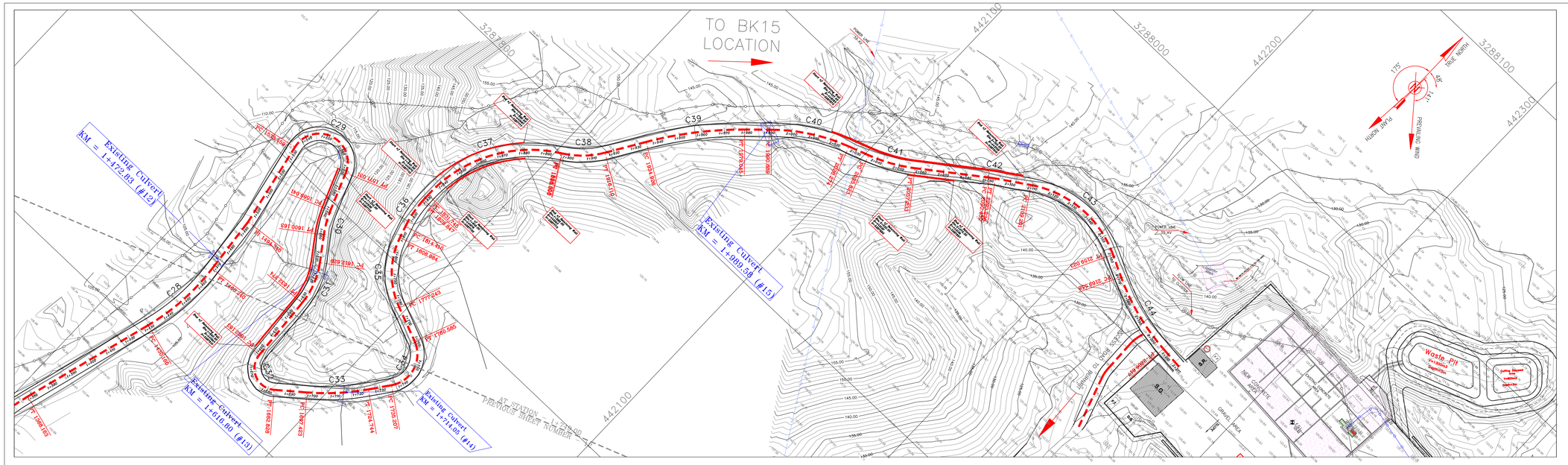
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SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

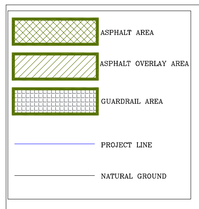
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

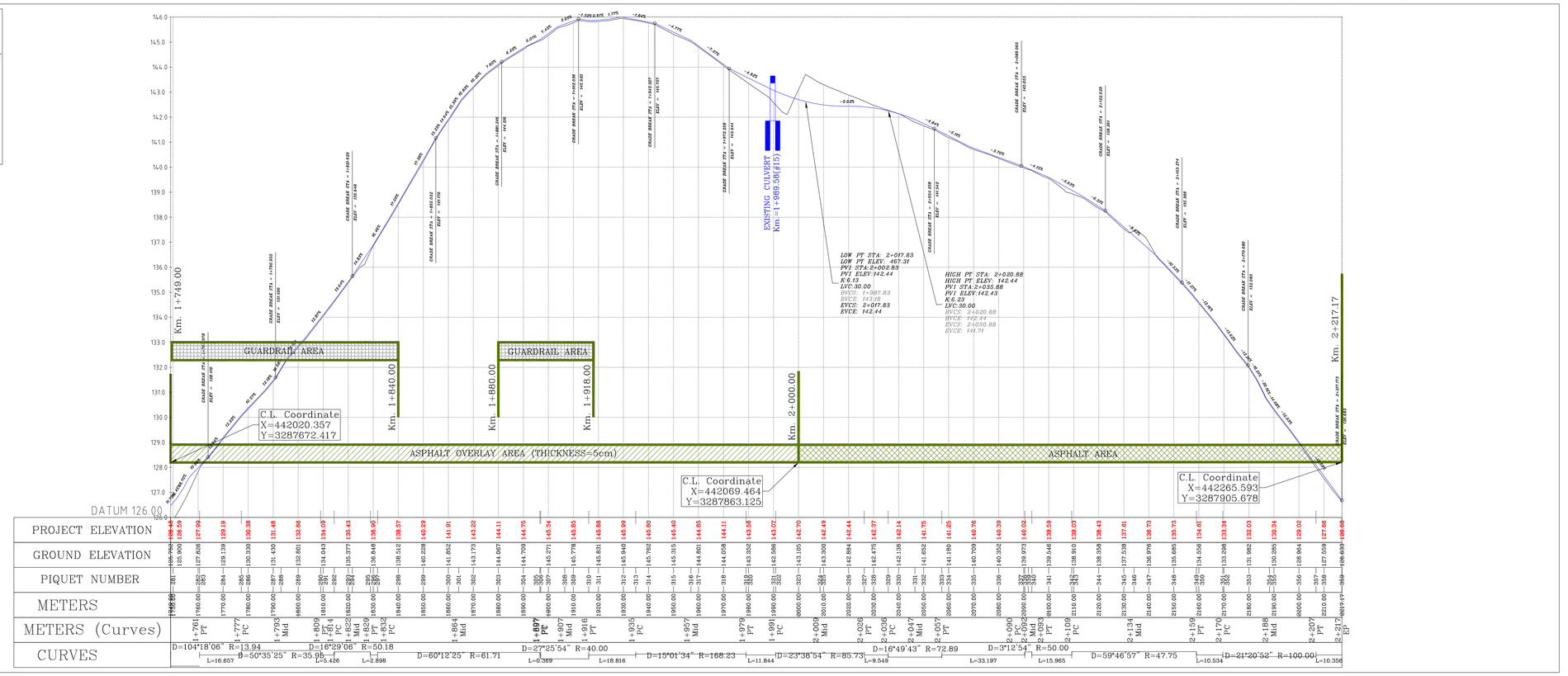
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	12	D00







Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C35	35.95	31.74	N42° 47' 32.13"W	(441997.04,3287686.69)	(441976.18,3287709.23)
C36	50.18	14.44	N9° 15' 16.84"W	(441974.54,3287714.41)	(441972.23,3287728.61)
C37	61.71	64.85	N29° 05' 28.71"E	(441972.18,3287731.51)	(442002.28,3287785.60)
C38	40.00	19.15	N45° 28' 44.38"E	(442002.59,3287785.79)	(442016.12,3287799.09)
C39	168.23	44.12	N39° 16' 34.40"E	(442026.02,3287815.09)	(442053.87,3287849.14)
C40	85.73	35.38	N58° 36' 48.31"E	(442062.50,3287857.25)	(442092.50,3287875.55)
C41	72.89	21.41	N62° 01' 23.94"E	(442101.50,3287878.75)	(442120.34,3287888.75)
C42	50.00	2.81	N55° 12' 59.76"E	(442147.06,3287908.45)	(442149.36,3287910.05)
C43	47.75	49.82	N86° 42' 55.39"E	(442162.73,3287918.79)	(442210.24,3287921.51)
C44	100.00	37.26	S74° 04' 02.17"E	(442219.66,3287916.80)	(442255.28,3287906.63)

Station	Northing	Easting
1+750.00	3287673.34	442019.97
1+760.00	3287680.24	442013.04
1+770.00	3287683.99	442003.76
1+780.00	3287687.82	441994.53
1+790.00	3287693.43	441986.29
1+800.00	3287701.09	441979.91
1+810.00	3287710.20	441975.87
1+820.00	3287719.82	441973.16
1+830.00	3287729.76	441972.21
1+840.00	3287739.75	441972.58
1+850.00	3287749.54	441974.54
1+860.00	3287758.89	441978.05
1+870.00	3287767.56	441983.03
1+880.00	3287775.30	441989.33
1+890.00	3287781.93	441996.81
1+900.00	3287787.44	442005.14
1+910.00	3287794.16	442012.52
1+920.00	3287802.40	442018.17
1+930.00	3287810.90	442023.43
1+940.00	3287819.36	442028.76
1+950.00	3287827.53	442034.52

Station	Northing	Easting
1+960.00	3287835.35	442040.76
1+970.00	3287842.78	442047.45
1+980.00	3287849.80	442054.57
1+990.00	3287856.64	442061.86
2+000.00	3287863.13	442069.46
2+010.00	3287868.68	442077.77
2+020.00	3287873.23	442086.67
2+030.00	3287876.80	442096.01
2+040.00	3287880.26	442105.39
2+050.00	3287884.76	442114.31
2+060.00	3287890.40	442122.56
2+070.00	3287896.33	442130.61
2+080.00	3287902.26	442138.66
2+090.00	3287908.20	442146.71
2+100.00	3287913.75	442155.02
2+110.00	3287919.22	442163.40
2+120.00	3287923.63	442172.35
2+130.00	3287926.08	442182.03
2+140.00	3287926.47	442192.00
2+150.00	3287924.77	442201.84

Station	Northing	Easting
2+160.00	3287921.08	442211.11
2+170.00	3287916.60	442220.06
2+180.00	3287912.61	442229.22
2+190.00	3287909.57	442238.74
2+200.00	3287907.48	442248.52
2+210.00	3287906.34	442258.45
2+217.17	3287905.68	442265.59

Coordinate of Bench Marks (UTM-ZONE 39N)

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GPS3	442298.973	3287835.163	136.234
GPS5-BK15	441785.148	3287231.638	83.923
K8	440937.96	3285884.164	25.547
K10	440438.963	3285397.137	21.545
BM41	441669.351	3286578.783	62.854
GPS6-BK5	441552.844	3286457.422	63.624
GPS1-BK5	441751.134	3286418.338	64.407
GPS7	441342.22	3286602.041	75.411
K23	441993.94	3287809.804	155.106

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

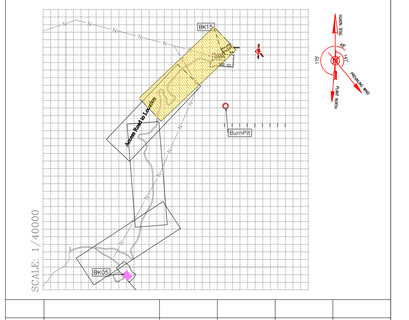
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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PT= POINT OF TANGENT
PC= POINT OF CURVATURE
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KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
***	**********	** **	*** ****	** **	***.****
		CHECKED		REV. APPR.	
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
ACCESS ROAD PLAN AND PROFILE

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

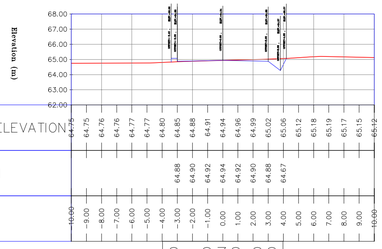
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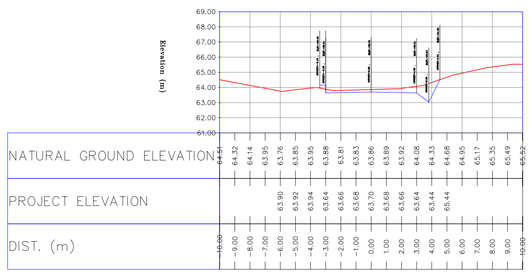
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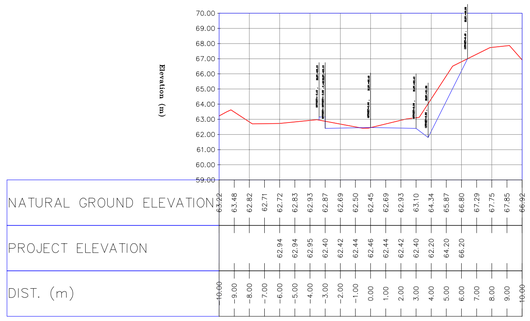
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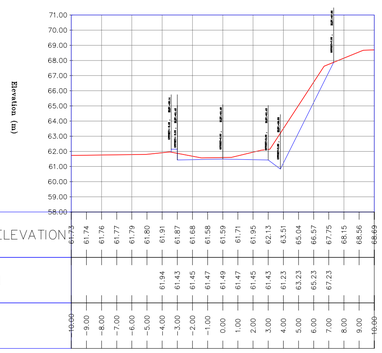
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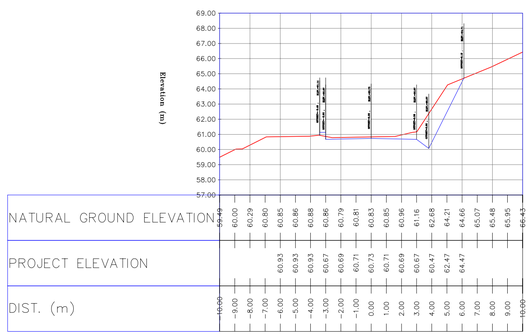
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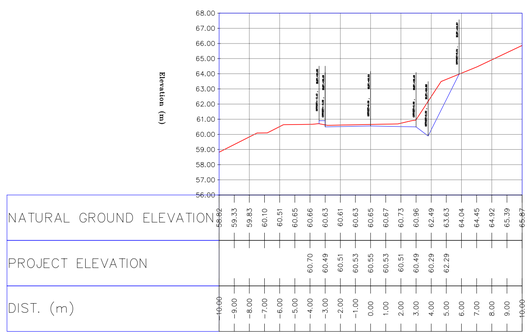
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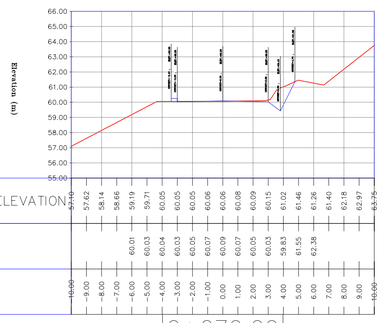
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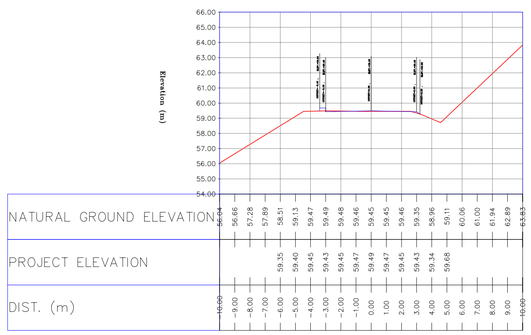
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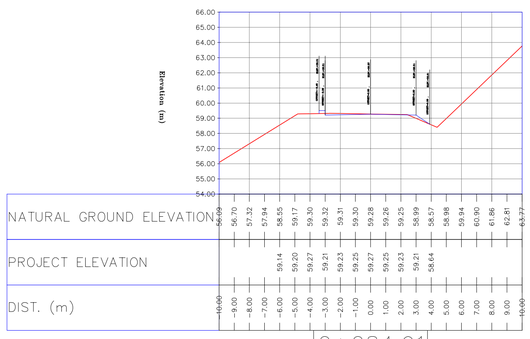
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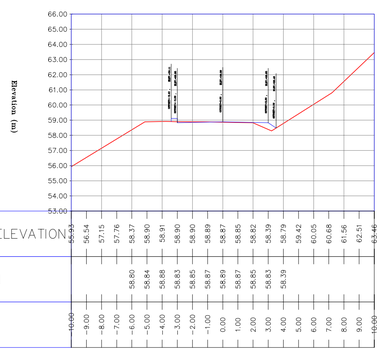
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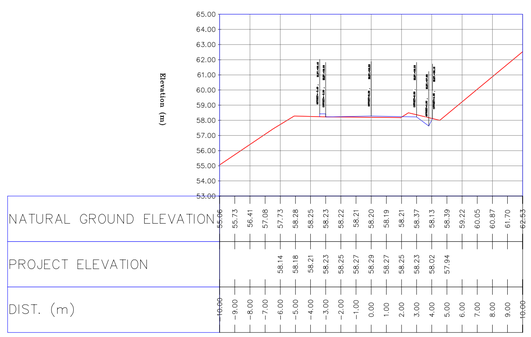
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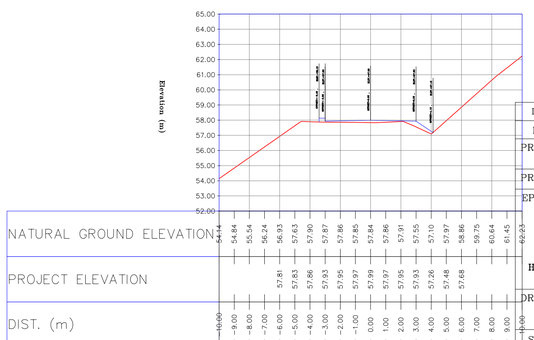
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0+080.00



0+084.91



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VERTICAL DATUM:	MSL

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LEGEND

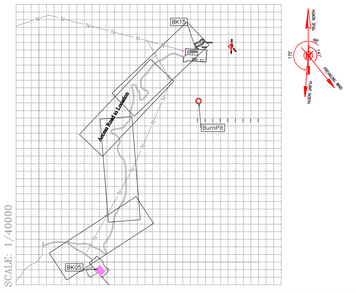
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

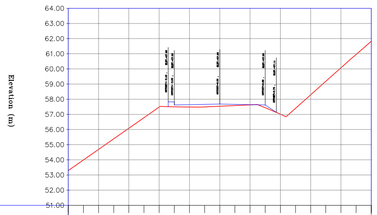
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APPROVED FOR CONSTRUCTION | BY: | DATE:

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

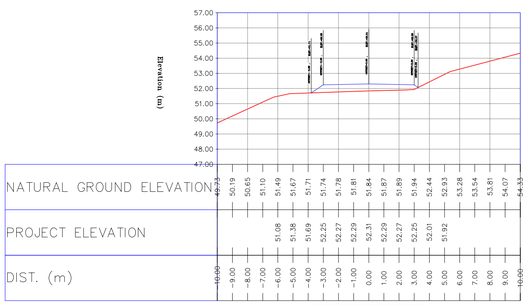
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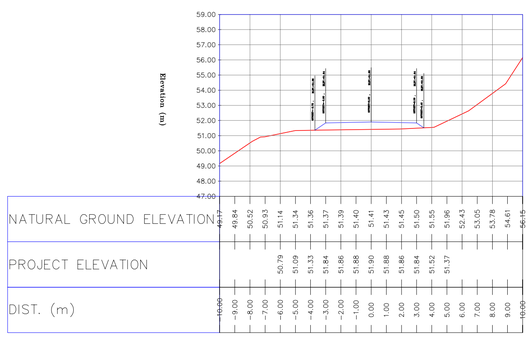

Elevation (m)
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50.00

| | | |

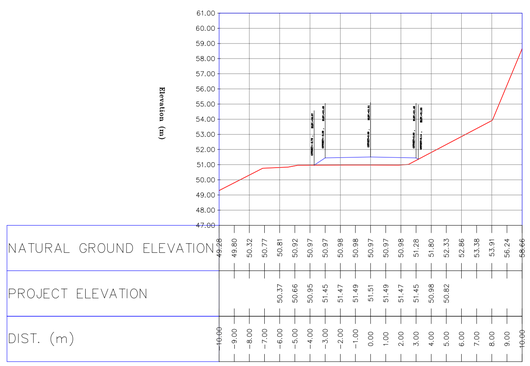
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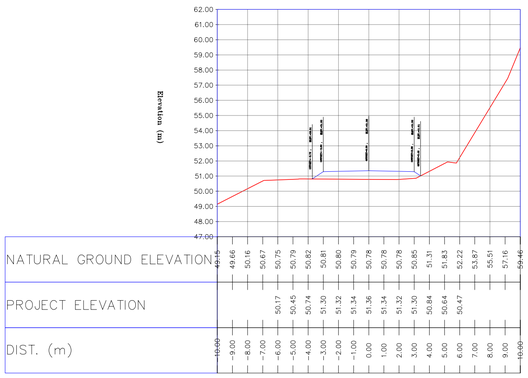
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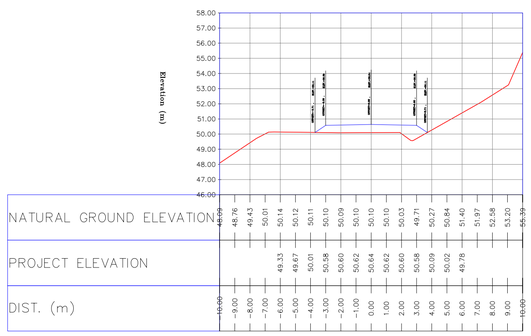
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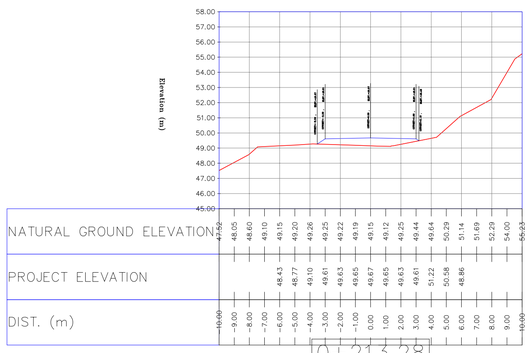
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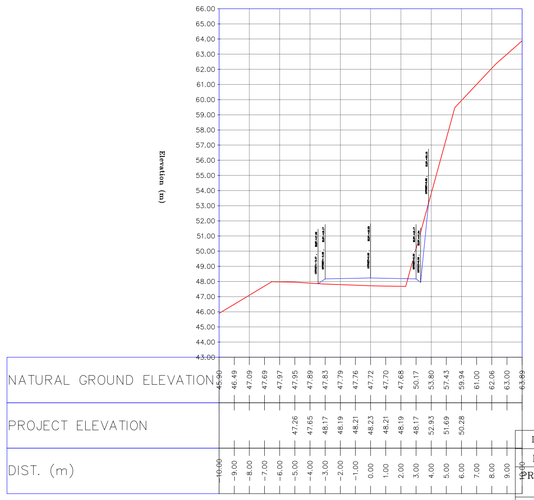
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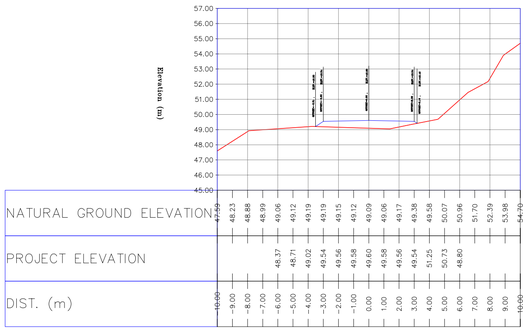
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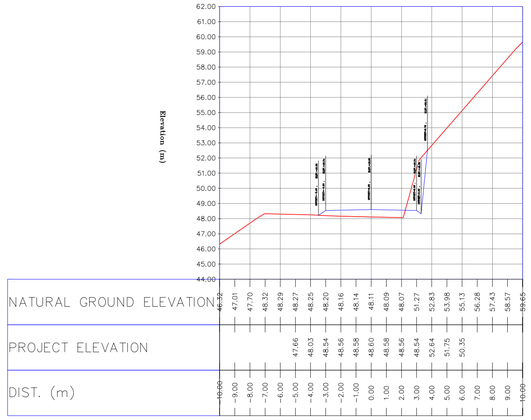
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NOTES

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LEGEND

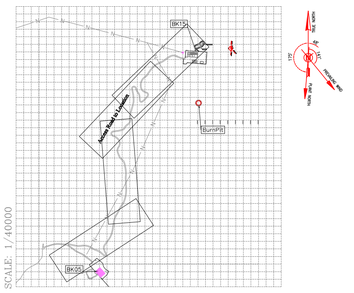
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
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	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
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60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

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KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	** **

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	16 OF 49	D00

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

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

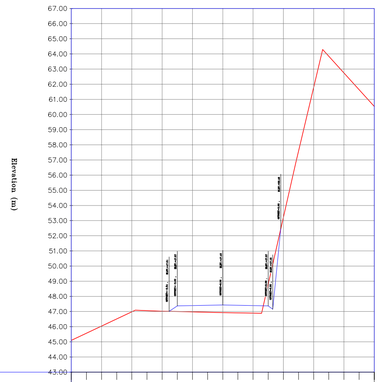
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

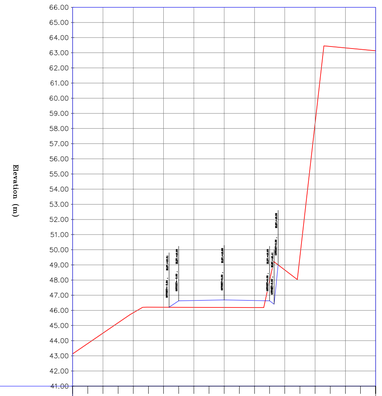
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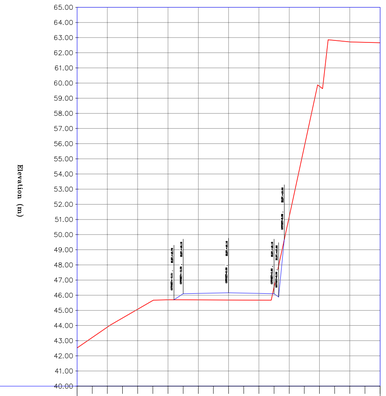
NATURAL GROUND ELEVATION	45.16	45.57	46.04	46.51	46.98	47.06	47.02	47.00	46.97	46.95	46.92	46.91	46.89	46.80	53.21	57.58	61.80	61.84	62.74	61.64	60.84				
PROJECT ELEVATION						46.39	46.82	47.37	47.39	47.41	47.43	47.41	47.39	47.37	52.23	50.84	49.15								
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+225.92



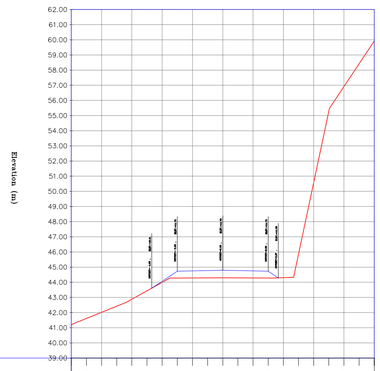
NATURAL GROUND ELEVATION	44.15	43.82	44.50	45.18	45.84	46.21	46.21	46.20	46.20	46.19	46.19	46.18	47.98	48.67	49.57	58.36	63.42	63.32	63.23	63.15					
PROJECT ELEVATION					45.20	45.63	46.05	46.63	46.65	46.67	46.69	46.67	46.65	46.63	48.95	46.44									
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+230.00



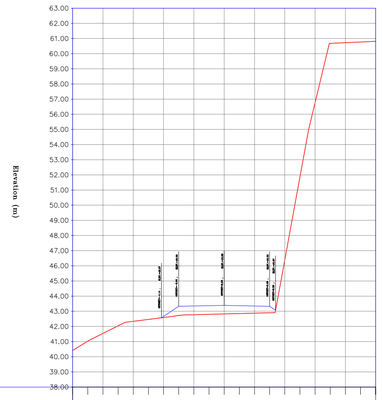
NATURAL GROUND ELEVATION	46.53	43.21	43.89	44.49	45.07	45.65	45.70	45.70	45.69	45.69	45.68	45.68	45.68	46.53	51.17	55.81	59.78	62.82	62.72	62.69	62.66				
PROJECT ELEVATION					44.68	45.11	45.53	46.10	46.12	46.14	46.16	46.14	46.12	46.10	48.90	46.39	45.52								
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+240.00



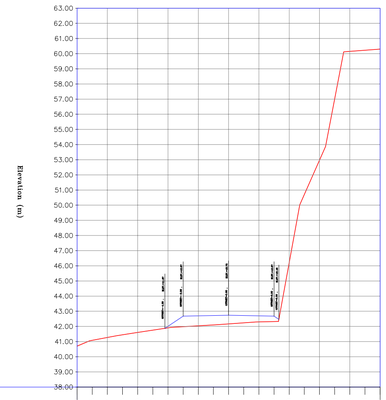
NATURAL GROUND ELEVATION	41.19	41.61	42.01	42.42	42.88	43.43	43.89	44.28	44.29	44.29	44.30	44.29	44.28	44.27	44.30	45.87	50.57	55.28	56.91	58.42	59.92				
PROJECT ELEVATION						43.10	43.49	44.07	44.73	44.75	44.77	44.79	44.77	44.75	44.73	44.29	44.20								
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+250.00



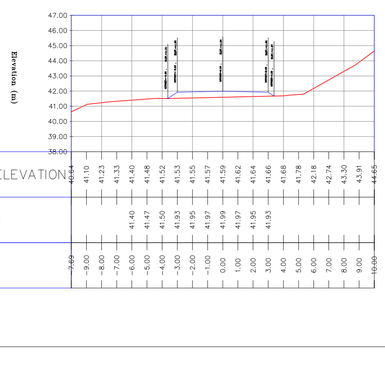
NATURAL GROUND ELEVATION	40.41	41.03	41.54	42.04	42.34	42.46	42.59	42.73	42.77	42.80	42.82	42.85	42.87	42.90	46.40	51.87	56.77	60.68	60.72	60.77	60.81				
PROJECT ELEVATION						41.94	42.28	42.66	43.33	43.35	43.37	43.39	43.37	43.35	43.33	43.01	42.93								
DIST. (m)	8.85	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+254.67



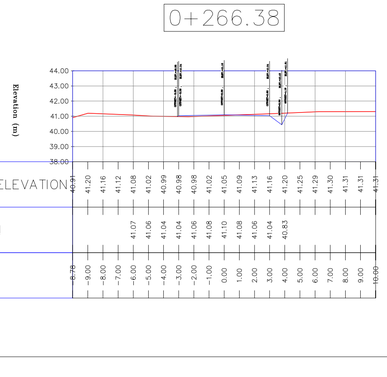
NATURAL GROUND ELEVATION	40.70	41.08	41.27	41.45	41.60	41.75	41.90	41.98	42.04	42.10	42.17	42.24	42.30	42.32	46.20	50.70	52.96	57.00	60.15	60.23	60.30				
PROJECT ELEVATION						41.43	41.67	42.01	42.67	42.69	42.71	42.73	42.71	42.69	42.67										
DIST. (m)	7.40	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+260.00



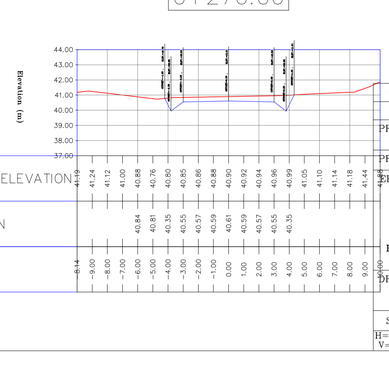
NATURAL GROUND ELEVATION	40.64	41.10	41.23	41.33	41.40	41.48	41.52	41.53	41.55	41.57	41.59	41.62	41.64	41.66	41.68	41.78	42.18	42.74	43.50	43.91	44.65				
PROJECT ELEVATION						41.40	41.47	41.50	41.93	41.95	41.97	41.99	41.97	41.95	41.93										
DIST. (m)	7.69	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+266.38



NATURAL GROUND ELEVATION	40.31	41.20	41.16	41.12	41.08	41.02	40.99	40.98	40.98	41.02	41.05	41.09	41.13	41.16	41.20	41.25	41.30	41.31	41.31	41.31					
PROJECT ELEVATION					41.07	41.06	41.04	41.06	41.08	41.10	41.08	41.06	41.04	40.83											
DIST. (m)	8.78	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+270.00



NATURAL GROUND ELEVATION	41.19	41.24	41.12	41.00	40.88	40.76	40.80	40.85	40.88	40.90	40.92	40.94	40.96	40.99	41.05	41.10	41.14	41.18	41.44	41.44					
PROJECT ELEVATION					40.84	40.81	40.76	40.55	40.57	40.59	40.61	40.59	40.57	40.55	40.55	40.35									
DIST. (m)	8.14	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

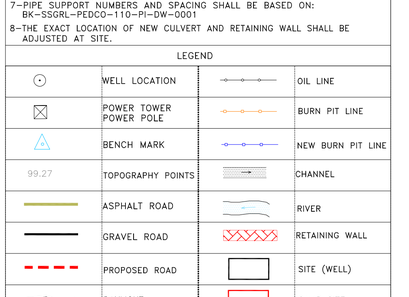
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	17 OF 49	D00

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

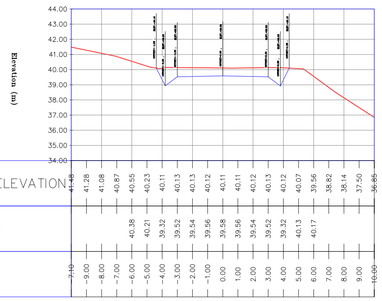
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

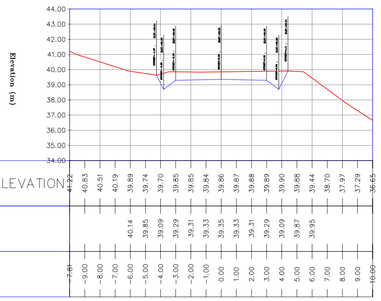
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0+278.08



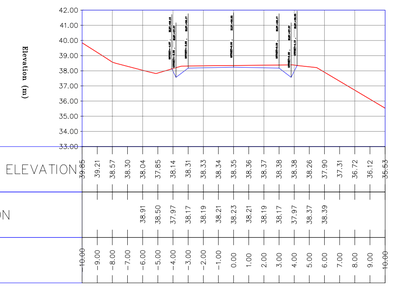
NATURAL GROUND ELEVATION	41.46	41.28	41.08	40.87	40.55	40.23	40.11	40.13	40.13	40.12	40.11	40.11	40.12	40.13	40.12	40.07	39.56	38.82	38.14	37.50	36.85				
PROJECT ELEVATION				40.38	40.21	39.32	39.52	39.54	39.56	39.56	39.58	39.56	39.54	39.52	39.32	40.13	40.17								
DIST. (m)	7+40	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+280.00



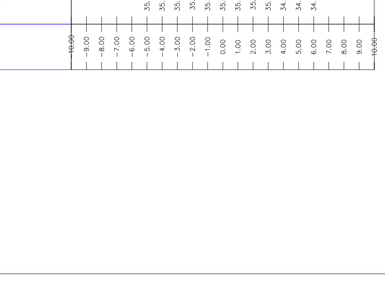
NATURAL GROUND ELEVATION	44.22	40.83	40.51	40.19	39.89	39.74	39.70	39.85	39.85	39.84	39.86	39.87	39.88	39.90	39.88	39.70	39.44	38.70	37.97	37.29	36.65				
PROJECT ELEVATION				40.14	39.85	39.09	39.29	39.31	39.33	39.35	39.33	39.31	39.29	39.09	38.87	39.95									
DIST. (m)	7+81	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+290.00



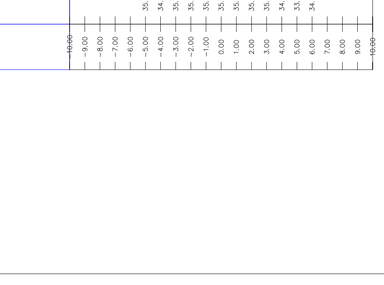
NATURAL GROUND ELEVATION	39.85	39.21	38.57	38.30	38.04	37.85	38.14	38.31	38.33	38.34	38.35	38.36	38.37	38.38	38.38	38.26	37.90	37.31	36.72	36.12	35.53				
PROJECT ELEVATION				38.91	38.50	37.97	38.17	38.19	38.21	38.23	38.21	38.19	38.17	37.97	38.37	38.39									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+290.60



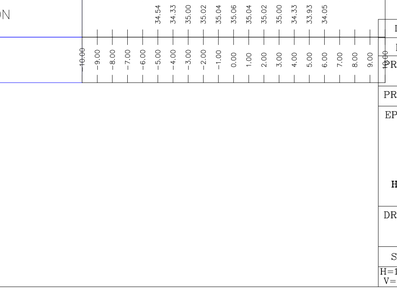
NATURAL GROUND ELEVATION	39.77	39.13	38.49	38.21	37.95	37.78	38.06	38.22	38.23	38.24	38.25	38.27	38.28	38.29	38.28	38.16	37.80	37.21	36.61	36.02	35.43				
PROJECT ELEVATION				38.84	38.43	37.91	38.11	38.13	38.15	38.15	38.17	38.15	38.13	38.11	37.91	38.27	38.30								
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+297.05



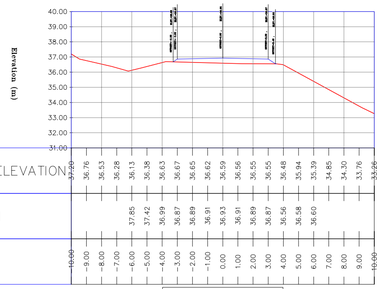
NATURAL GROUND ELEVATION	36.49	37.85	37.46	37.16	36.91	37.15	37.38	37.40	37.38	37.37	37.34	37.32	37.31	37.28	37.15	36.66	36.09	35.53	34.97	34.41					
PROJECT ELEVATION				38.21	37.78	37.46	37.48	37.50	37.52	37.50	37.48	37.46	37.40	37.42	37.43										
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+300.00



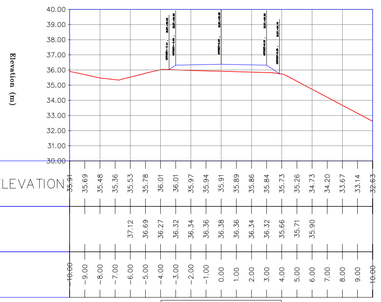
NATURAL GROUND ELEVATION	37.91	37.30	37.05	36.77	36.54	36.78	37.02	37.06	37.03	37.00	37.04	36.99	36.98	36.97	36.96	36.93	36.67	36.11	35.56	35.00	34.45	33.89			
PROJECT ELEVATION				37.84	37.41	37.18	37.20	37.22	37.22	37.20	37.24	37.22	37.20	37.18	37.02	37.03	37.05								
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+303.50



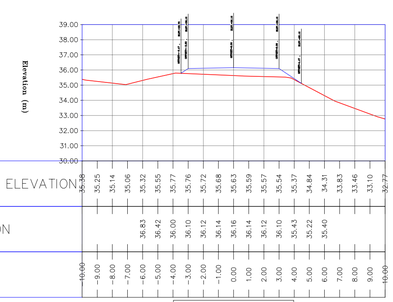
NATURAL GROUND ELEVATION	37.20	36.76	36.53	36.28	36.13	36.38	36.63	36.67	36.65	36.62	36.59	36.56	36.55	36.55	36.48	36.48	35.94	35.39	34.85	34.30	33.76	33.26			
PROJECT ELEVATION				37.85	37.42	36.99	36.87	36.89	36.91	36.93	36.89	36.91	36.89	36.87	36.56	36.58	36.60								
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+310.00



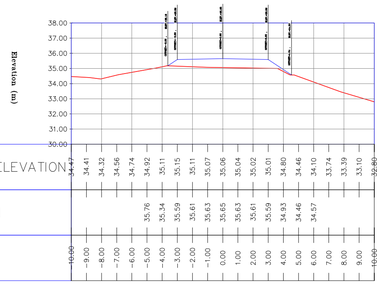
NATURAL GROUND ELEVATION	35.91	35.69	35.48	35.36	35.53	35.78	36.01	35.97	35.94	35.91	35.89	35.86	35.84	35.73	35.26	34.73	34.20	33.67	33.14	32.63					
PROJECT ELEVATION				37.12	36.69	36.27	36.32	36.34	36.36	36.38	36.36	36.34	36.32	35.66	35.71	35.90									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+312.87



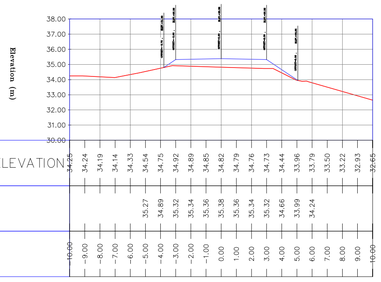
NATURAL GROUND ELEVATION	35.36	35.25	35.14	35.06	35.32	35.55	35.77	35.76	35.68	35.63	35.59	35.57	35.54	35.37	34.84	34.31	33.83	33.46	33.10	32.77					
PROJECT ELEVATION				36.83	36.42	36.00	36.10	36.12	36.14	36.16	36.14	36.12	36.10	35.43	35.22	35.40									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+320.00



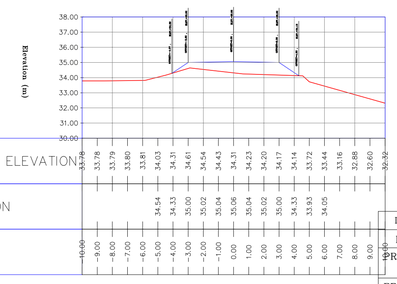
NATURAL GROUND ELEVATION	34.47	34.41	34.32	34.56	34.74	34.92	35.11	35.15	35.11	35.07	35.06	35.04	35.02	35.01	34.80	34.46	34.10	33.74	33.39	33.10	32.80				
PROJECT ELEVATION				35.76	35.34	35.09	35.61	35.63	35.63	35.63	35.61	35.59	34.93	34.46	34.27										
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+324.28



NATURAL GROUND ELEVATION	34.25	34.24	34.19	34.14	34.33	34.54	34.75	34.92	35.32	35.54	35.56	35.38	34.82	34.79	34.76	34.73	34.44	33.96	33.79	33.50	33.22	32.93	32.65		
PROJECT ELEVATION				35.27	34.89	34.52	34.89	35.32	35.54	35.56	35.38	35.36	35.34	35.32	34.66	33.99	34.24								
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

0+330.00



NATURAL GROUND ELEVATION	33.78	33.78	33.79	33.80	33.81	34.03	34.31	34.61	34.54	34.43	34.31	34.23	34.20	34.17	34.14	33.72	33.44	33.16	32.88	32.60	32.32				
PROJECT ELEVATION				34.54	34.13	35.00	35.02	35.04	35.04	35.06	35.04	35.02	35.00	34.33	33.93	34.05									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

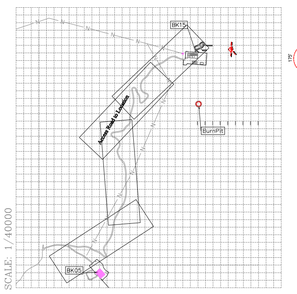
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	18 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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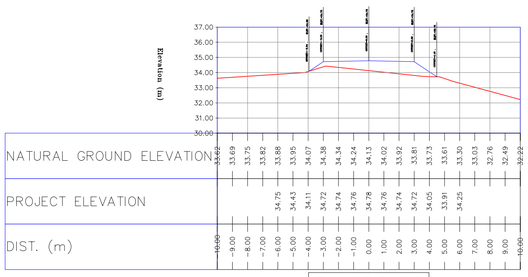
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

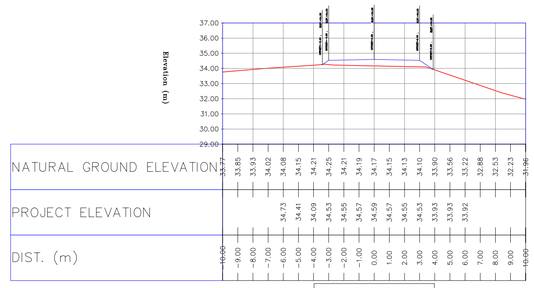
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

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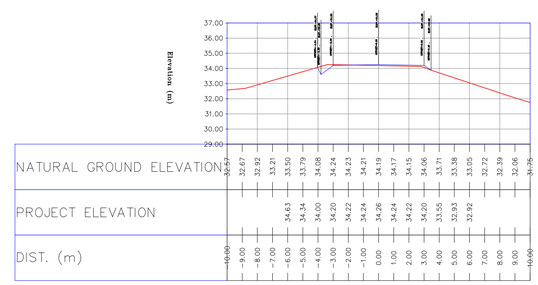
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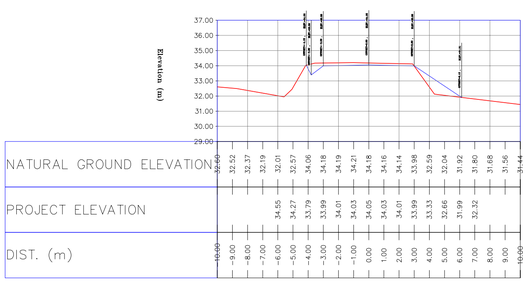
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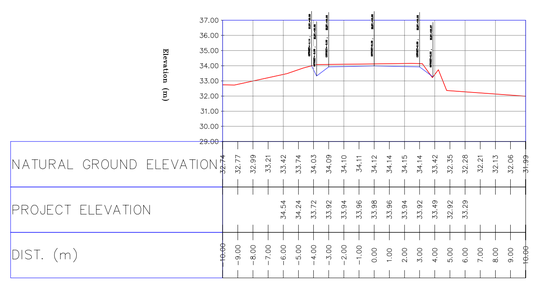
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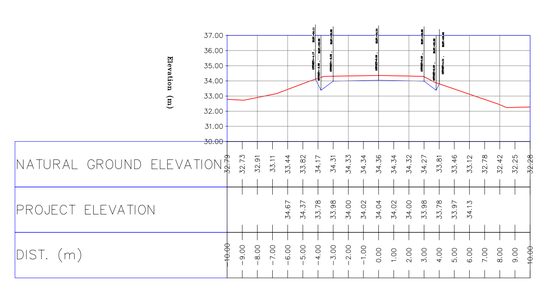
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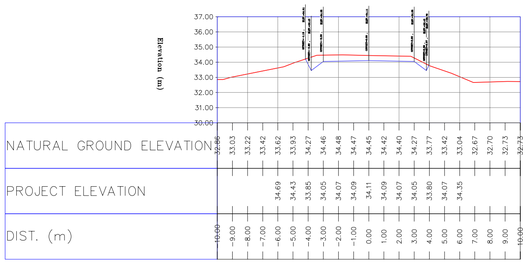
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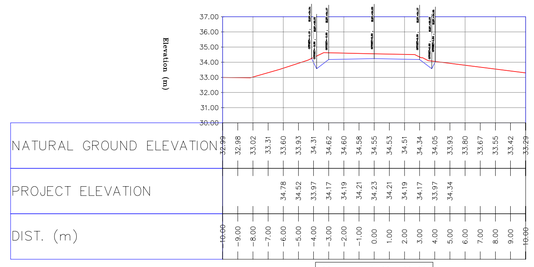
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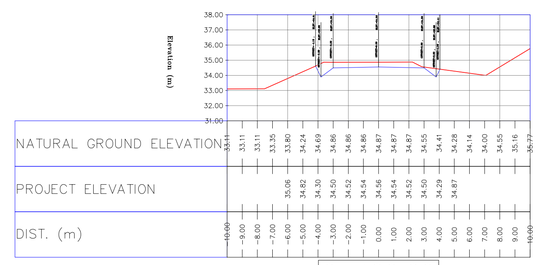
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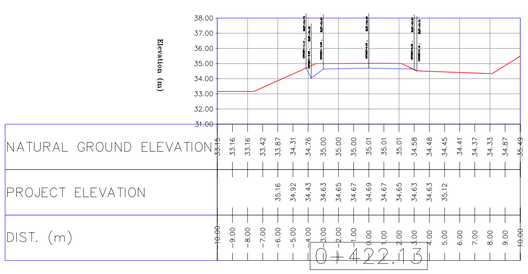
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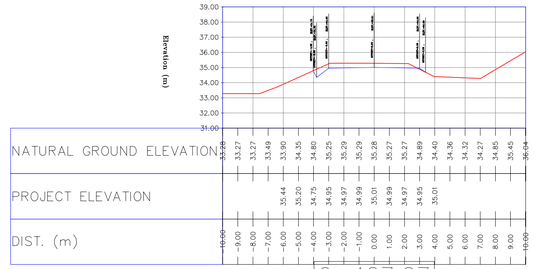
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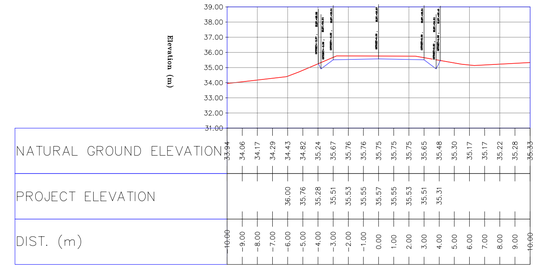
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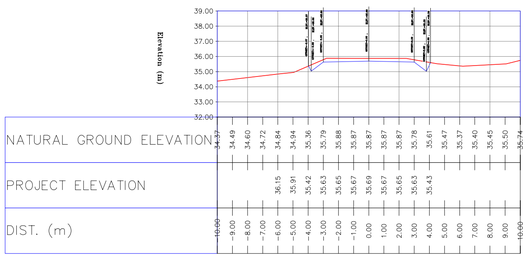
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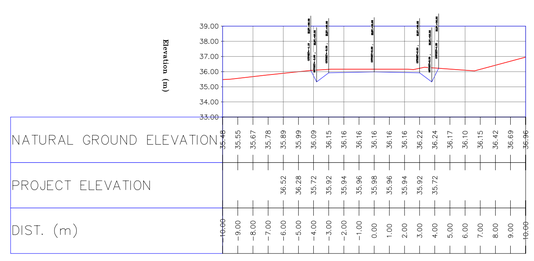
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0+422.13



0+427.27



NOTES

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VERTICAL DATUM:	MSL

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LEGEND

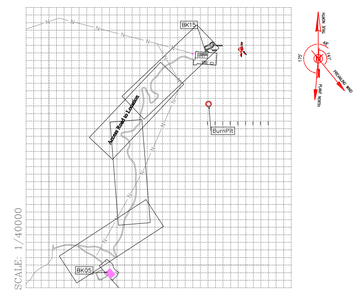
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

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KEY PLAN



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

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	19 OF 49	D00

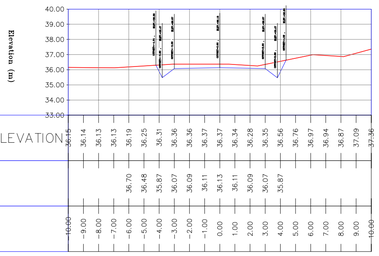
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

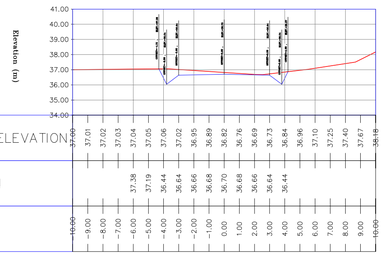
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APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	19	D00

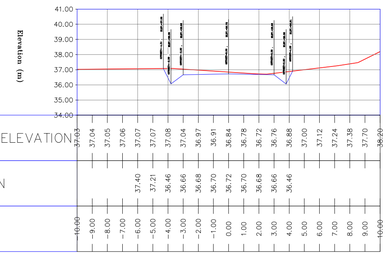
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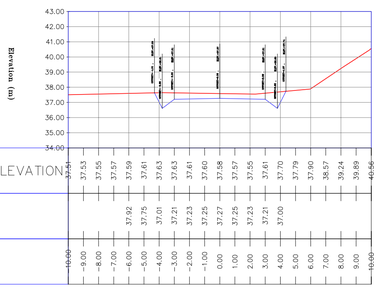
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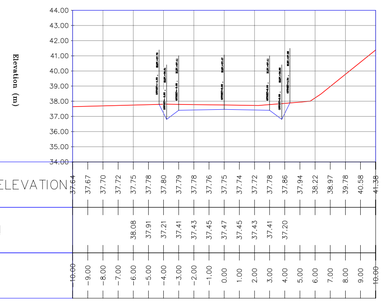
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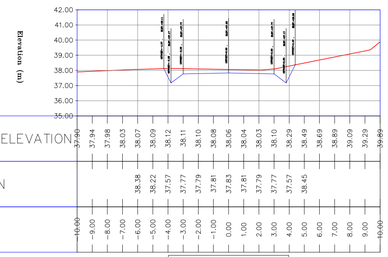
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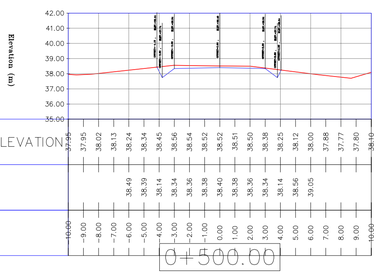
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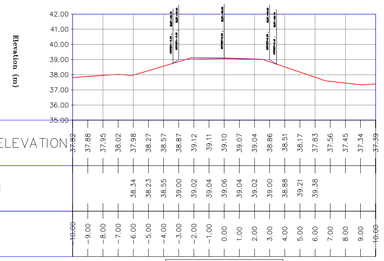
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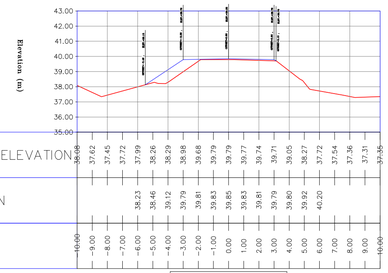
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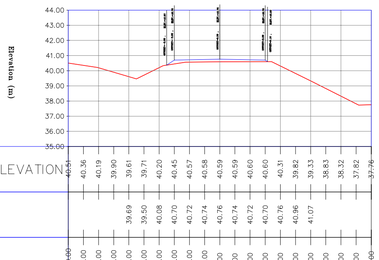
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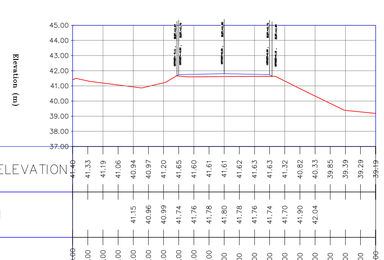
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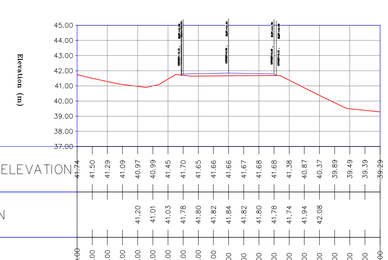
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0+510.00



0+510.39



NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.

2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

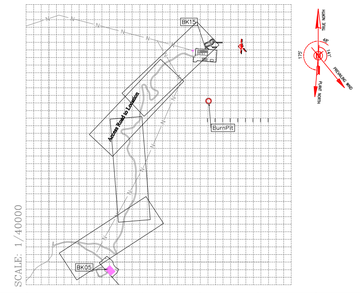
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
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KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	20 OF 49	D00

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

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

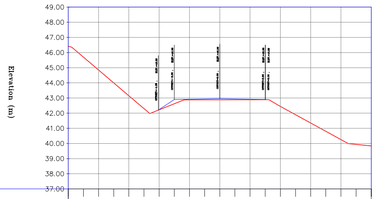
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

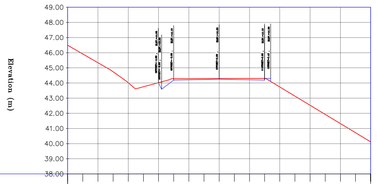
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	20	D00

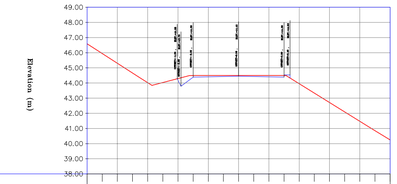
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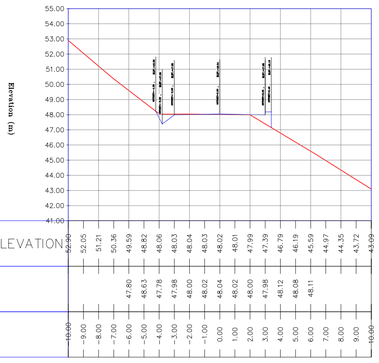
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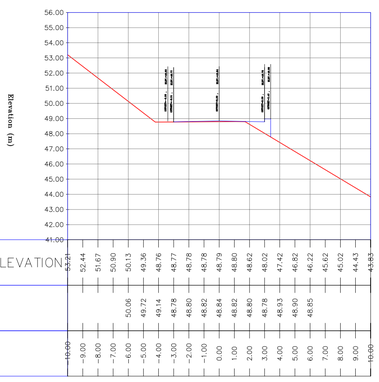
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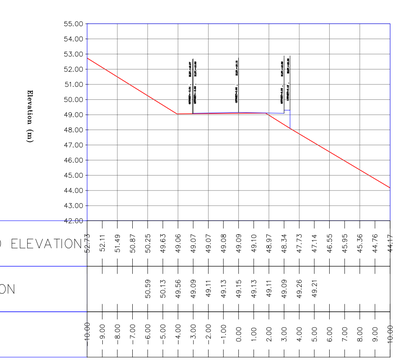
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0+567.14



0+570.00



NOTES

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LEGEND

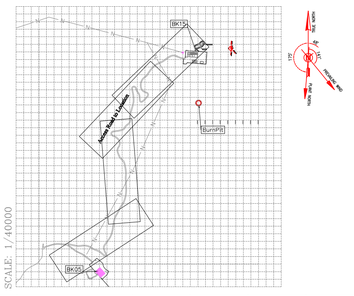
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⊠	POWER TOWER / POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		EXISTING AREA
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REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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KEY PLAN



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

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

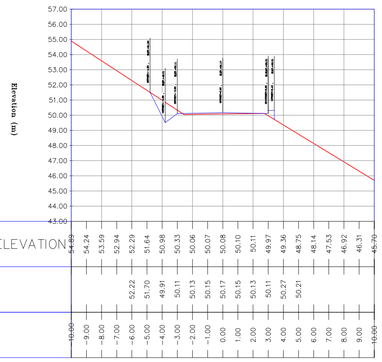
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

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

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	21 OF 49	D00

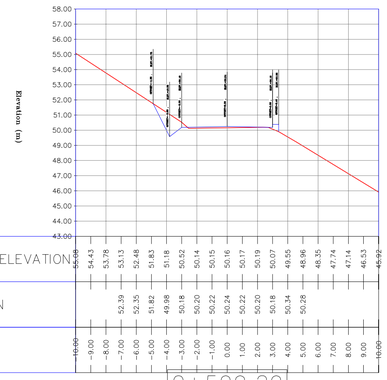
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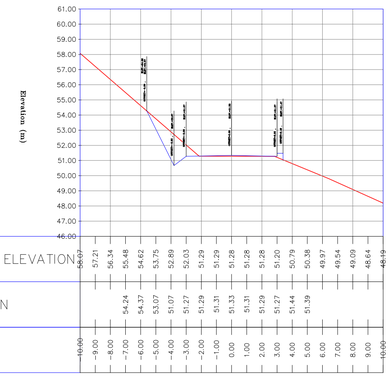
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PROJECT ELEVATION					52.22	51.70	49.91	50.11	50.13	50.15	50.17	50.15	50.13	50.11	50.27	50.21					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

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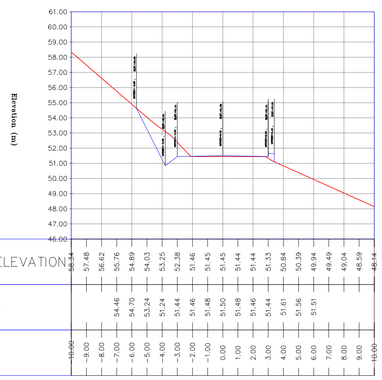
NATURAL GROUND ELEVATION	56.26	54.43	53.78	53.13	52.48	51.83	51.18	50.52	50.14	50.15	50.16	50.17	50.19	50.07	49.55	48.96	48.35	47.74	47.14	46.53	45.92
PROJECT ELEVATION				52.39	52.35	51.82	49.98	50.18	50.20	50.22	50.24	50.22	50.20	50.18	50.34	50.28					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+590.00



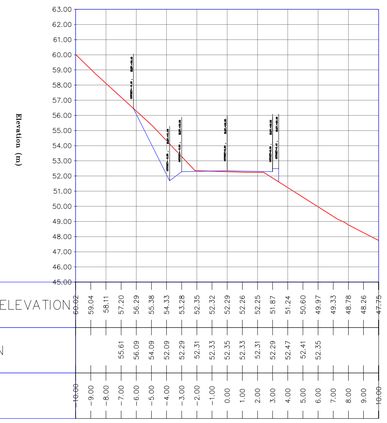
NATURAL GROUND ELEVATION	58.07	57.21	56.34	55.48	54.62	53.75	52.89	52.03	51.29	51.29	51.28	51.28	51.28	51.20	50.79	50.38	49.97	49.54	49.09	48.64	48.19
PROJECT ELEVATION				54.24	54.37	53.07	51.07	51.27	51.29	51.31	51.33	51.29	51.28	51.27	51.44	51.39					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+591.54



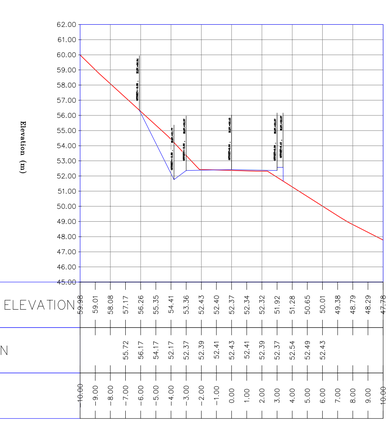
NATURAL GROUND ELEVATION	56.54	57.48	56.62	55.76	54.89	54.03	53.25	52.38	51.46	51.45	51.45	51.44	51.50	51.46	51.44	51.53	50.84	50.39	49.94	49.49	49.04	48.59	48.14
PROJECT ELEVATION					54.46	54.70	53.24	51.24	51.44	51.46	51.48	51.48	51.46	51.44	51.61	51.56	51.51						
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+599.29



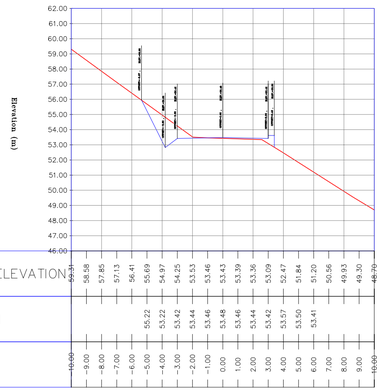
NATURAL GROUND ELEVATION	60.00	59.04	58.11	57.20	56.29	55.38	54.33	53.28	52.32	52.29	52.26	52.25	51.87	51.24	50.60	49.97	49.33	48.70	48.26	47.82	47.75
PROJECT ELEVATION				55.61	56.09	54.09	52.09	52.31	52.35	52.33	52.35	52.31	52.29	52.47	52.41	52.35					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+600.00



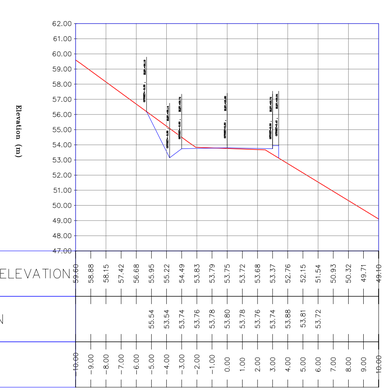
NATURAL GROUND ELEVATION	59.98	59.01	58.08	57.17	56.26	55.35	54.41	53.36	52.43	52.37	52.39	52.41	52.43	52.41	52.39	52.37	52.54	52.49	52.43	48.79	47.78
PROJECT ELEVATION				55.72	56.17	54.17	52.17	52.37	52.41	52.41	52.43	52.41	52.39	52.37	52.54	52.49	52.43				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+610.00



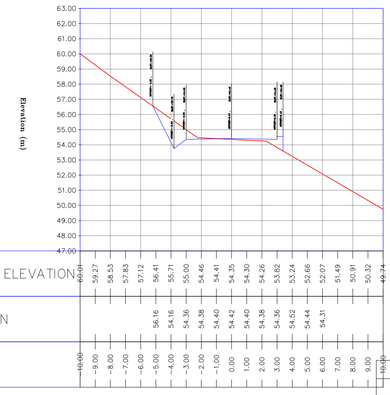
NATURAL GROUND ELEVATION	56.31	58.58	57.85	57.13	56.41	55.69	54.97	54.25	53.53	53.46	53.43	53.39	53.36	53.09	52.47	51.84	51.20	50.56	49.93	49.30	48.70
PROJECT ELEVATION					55.22	55.22	54.97	53.42	53.44	53.46	53.48	53.46	53.44	53.42	53.57	53.50	53.41				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+613.17



NATURAL GROUND ELEVATION	59.60	58.88	58.15	57.42	56.68	55.95	55.22	54.49	53.83	53.79	53.75	53.72	53.68	53.37	52.76	52.15	51.54	50.93	50.32	49.71	49.10
PROJECT ELEVATION					55.54	55.54	53.74	53.76	53.78	53.78	53.76	53.76	53.74	53.88	53.81	53.72					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+620.00



NATURAL GROUND ELEVATION	60.01	59.27	58.53	57.83	57.12	56.41	55.71	55.00	54.46	54.41	54.35	54.30	54.26	53.82	53.24	52.66	52.07	51.49	50.91	50.32	49.74
PROJECT ELEVATION					56.16	54.16	54.36	54.38	54.40	54.42	54.40	54.38	54.36	54.52	54.44	54.31					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MSL
4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

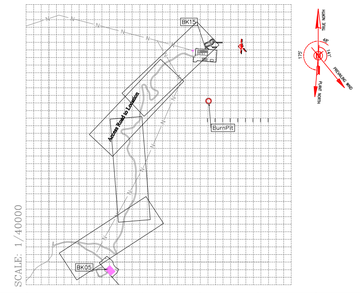
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	22 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

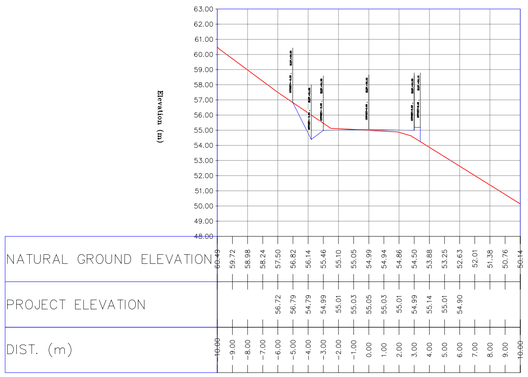
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

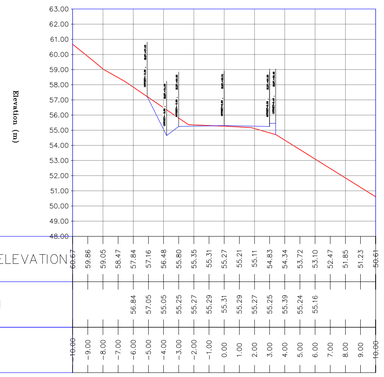
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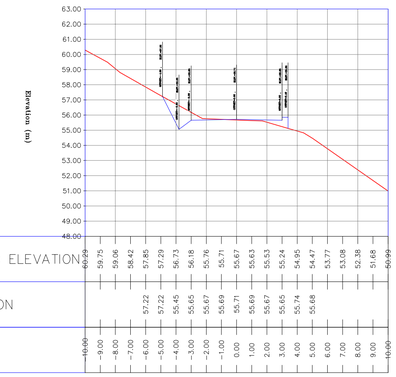
NATURAL GROUND ELEVATION	60.49	59.72	58.98	58.24	57.50	56.82	56.14	55.46	55.10	55.05	54.99	54.94	54.86	54.50	53.88	53.25	52.63	52.01	51.38	50.76	50.14
PROJECT ELEVATION						56.72	56.79	54.99	55.01	55.03	55.05	55.03	55.01	54.99	55.14	55.01	54.90				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+630.00



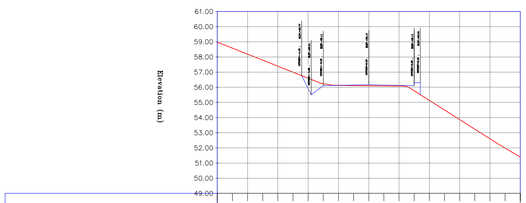
NATURAL GROUND ELEVATION	60.67	59.86	59.05	58.47	57.84	57.16	56.48	55.80	55.35	55.27	55.21	55.11	54.83	54.34	53.72	53.10	52.47	51.85	51.23	50.61	
PROJECT ELEVATION						56.84	57.00	55.65	55.25	55.27	55.29	55.31	55.29	55.27	55.25	55.39	55.24	55.16			
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+634.73



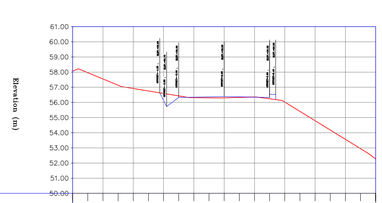
NATURAL GROUND ELEVATION	60.23	59.75	59.06	58.42	57.85	57.29	56.73	56.18	55.76	55.71	55.67	55.63	55.53	55.24	54.95	54.47	53.77	53.08	52.38	51.68	50.99
PROJECT ELEVATION						57.22	57.22	55.45	55.65	55.67	55.69	55.69	55.67	55.65	55.74	55.68					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+640.00



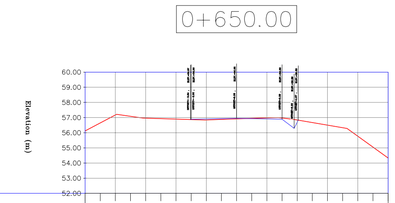
NATURAL GROUND ELEVATION	58.89	58.58	58.18	57.79	57.39	57.00	56.60	56.24	56.13	56.12	56.10	56.09	56.09	55.77	55.13	54.50	53.87	53.23	52.60	51.99	51.39
PROJECT ELEVATION						57.11	57.07	55.91	56.11	56.13	56.15	56.15	56.13	56.11							
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+642.61



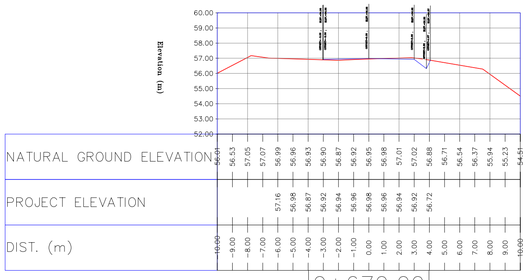
NATURAL GROUND ELEVATION	58.07	57.96	57.55	57.14	56.92	56.76	56.59	56.43	56.31	56.30	56.33	56.36	56.24	56.03	55.41	54.80	54.18	53.57	52.95	52.27	
PROJECT ELEVATION						57.08	57.02	56.13	56.35	56.37	56.39	56.37	56.35	56.33							
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+650.00



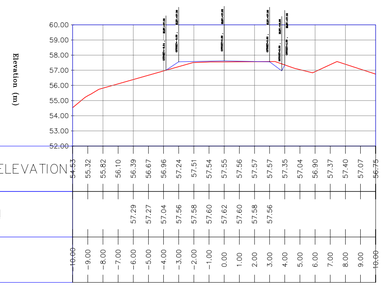
NATURAL GROUND ELEVATION	56.92	56.65	57.17	57.08	56.96	56.93	56.89	56.87	56.84	56.88	56.92	56.95	56.98	56.97	56.84	56.67	56.50	56.33	55.77	55.05	54.33
PROJECT ELEVATION					57.15	56.98	56.87														
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+650.48



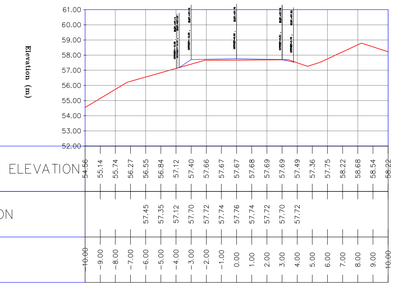
NATURAL GROUND ELEVATION	55.01	56.53	57.05	57.07	56.99	56.96	56.93	56.90	56.87	56.92	56.96	56.95	56.98	57.01	57.02	56.88	56.71	56.54	56.37	55.94	55.23	54.51
PROJECT ELEVATION					57.16	56.98	56.87	56.92	56.94	56.96	56.96	56.98	56.94	56.92	56.72							
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+660.00



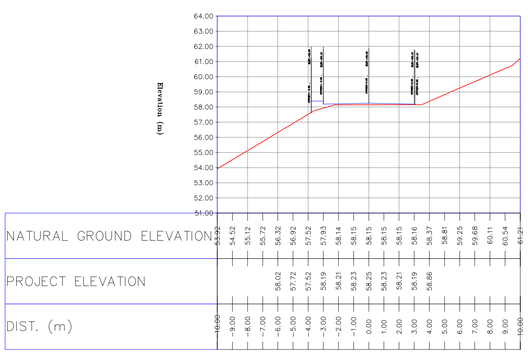
NATURAL GROUND ELEVATION	54.53	55.32	55.82	56.10	56.39	56.67	56.96	57.24	57.51	57.54	57.55	57.56	57.57	57.57	57.35	57.04	56.90	57.37	57.40	57.07	56.75
PROJECT ELEVATION					57.29	57.27	57.04	56.96	56.94	57.58	57.60	57.60	57.58	57.56							
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+662.28



NATURAL GROUND ELEVATION	54.56	55.14	55.74	56.27	56.55	56.84	57.12	57.40	57.67	57.67	57.68	57.69	57.69	57.49	57.36	57.75	58.22	58.68	58.54	58.22	
PROJECT ELEVATION					57.45	57.35	57.12	57.70	57.72	57.74	57.76	57.74	57.72	57.70	57.72						
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

0+670.00



NATURAL GROUND ELEVATION	53.92	54.52	55.12	55.72	56.32	56.92	57.52	57.93	58.14	58.15	58.15	58.15	58.15	58.16	58.37	58.81	59.25	59.68	60.11	60.54	61.21
PROJECT ELEVATION					58.02	57.72	57.52	58.19	58.21	58.23	58.25	58.23	58.21	58.19	58.86						
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

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6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

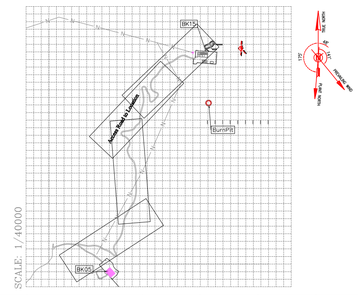
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N—N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
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KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	23 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

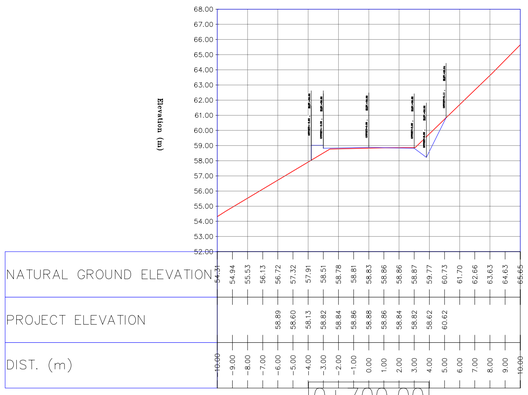
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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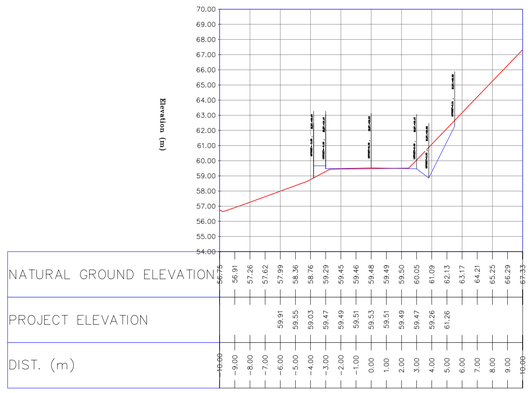
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	23	D00

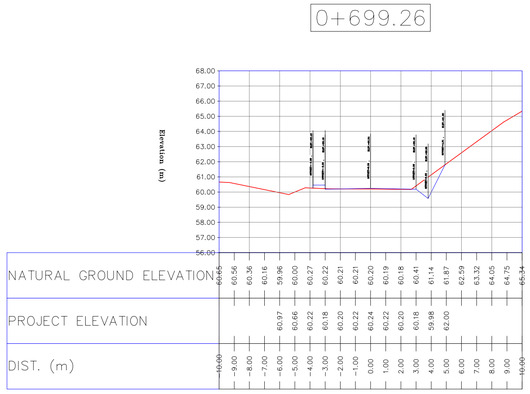
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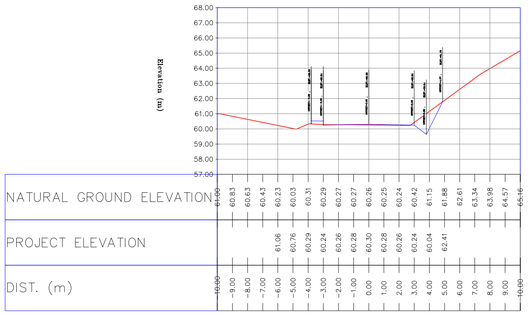
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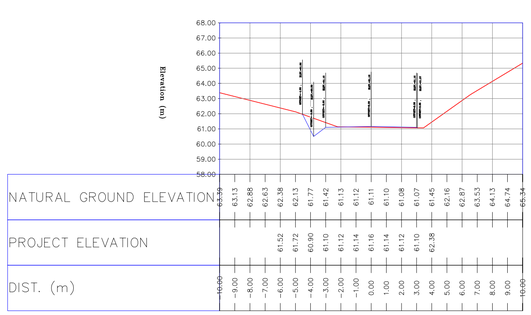
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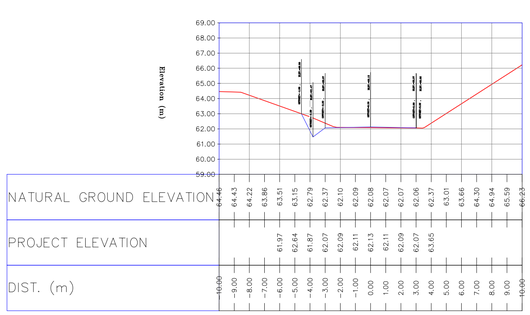
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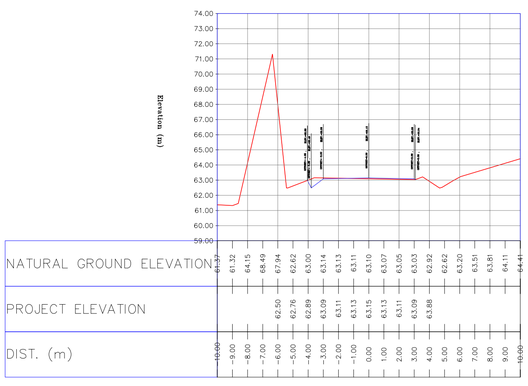
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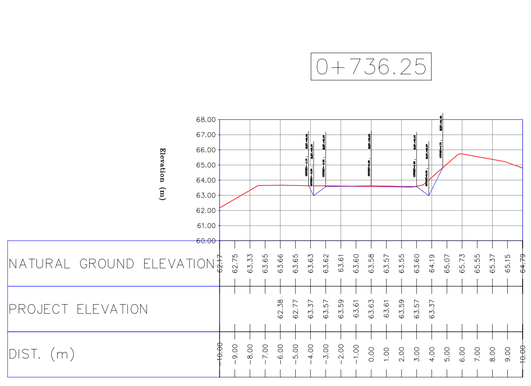
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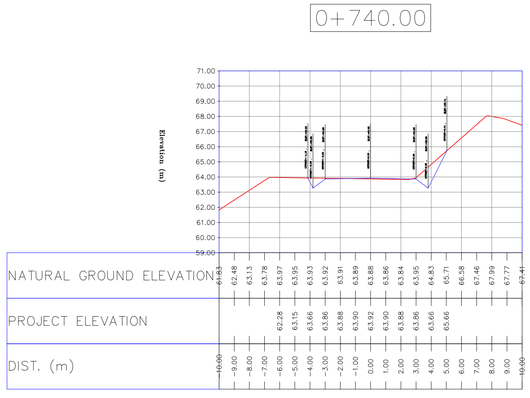
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0+736.25



0+740.00



NOTES

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

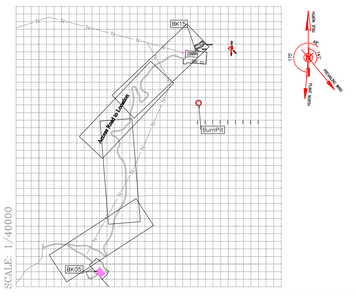
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
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KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

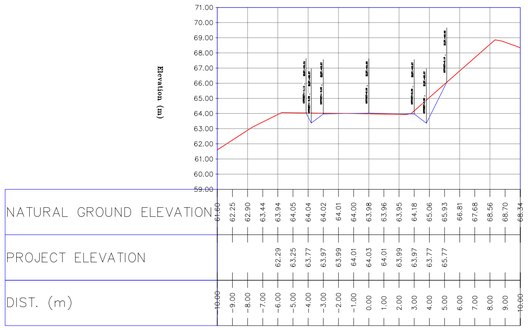
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	24 OF 49	D00

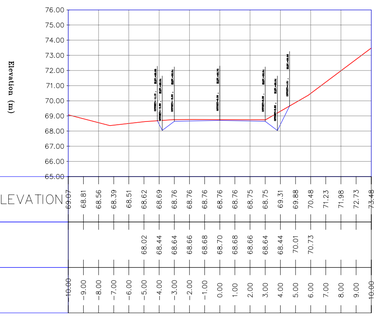
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	24	D00

0+741.33


Elevation (m)
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70.00
69.00
68.00
67.00
66.00
65.00
64.00
63.00
62.00
61.00
60.00
59.00
58.00

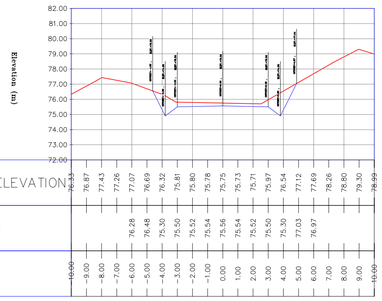
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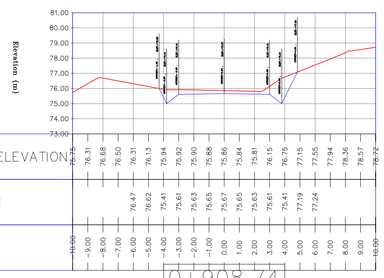

Elevation (m)
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| | | |

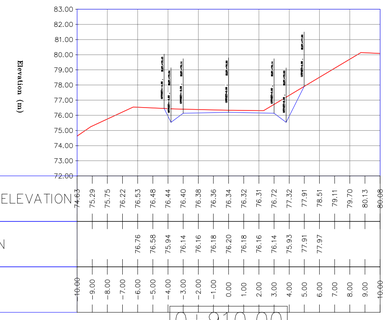
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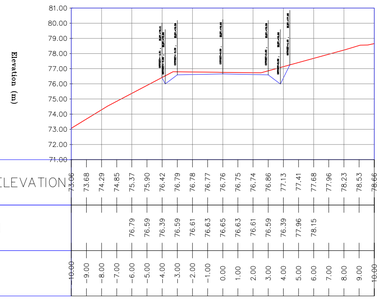
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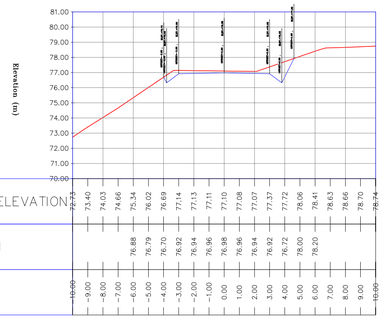
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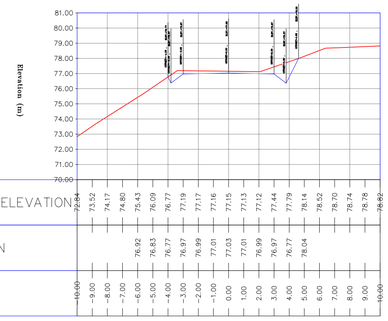
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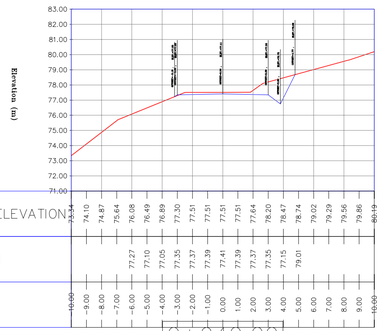
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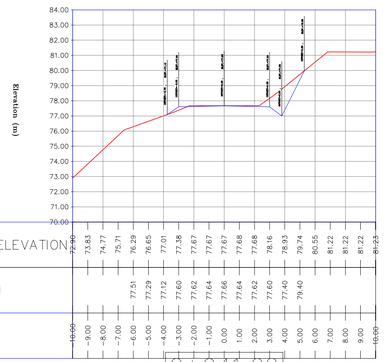
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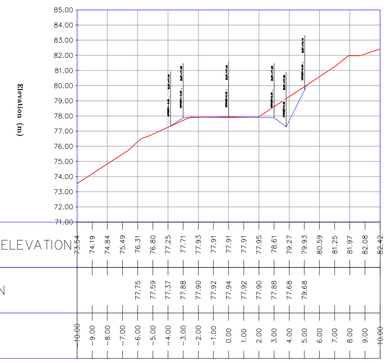
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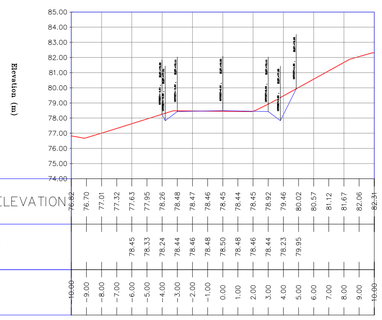
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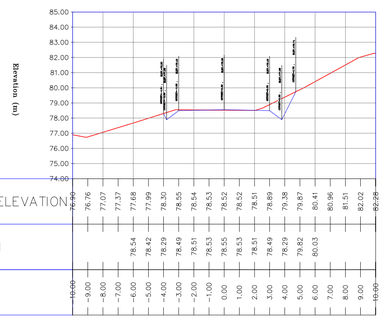
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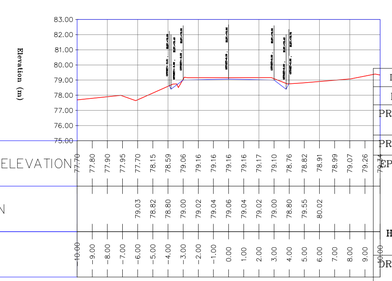
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LEGEND

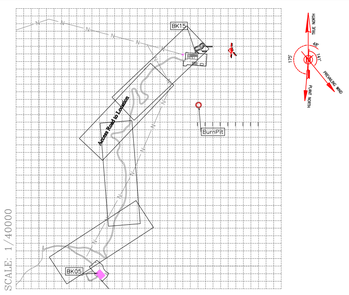
⊙	WELL LOCATION		OIL LINE
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99.27	TOPOGRAPHY POINTS		CHANNEL
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	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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60 / 50	CONTOURS		EXISTING AREA
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REFERENCE DRAWING	DRG. No.
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KEY PLAN



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

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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	27 OF 49	D00

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

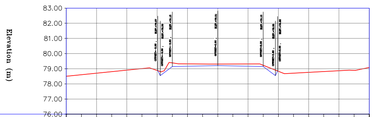
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	27	D00

0+952.21



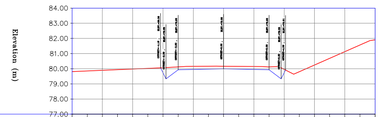
NATURAL GROUND ELEVATION	78.60	78.70	78.81	78.91	79.01	78.88	79.38	79.32	79.31	79.31	79.31	79.31	79.22	78.83	78.71	78.76	78.81	78.87	78.89	79.09
PROJECT ELEVATION					79.30	79.09	78.88	79.15	79.17	79.19	79.21	79.19	79.17	78.91	79.46	80.04				
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+960.00



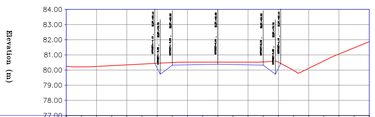
NATURAL GROUND ELEVATION	79.57	79.61	79.66	79.70	79.74	79.78	79.83	79.87	79.88	79.86	79.84	79.84	79.84	79.81	79.87	80.05	80.22	80.39	80.56	80.73	80.90	
PROJECT ELEVATION							79.75	79.46	79.66	79.68	79.70	79.72	79.70	79.68	79.66	79.46	79.90	80.05				
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+964.02



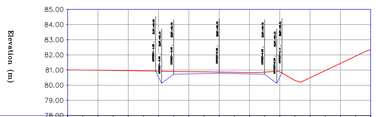
NATURAL GROUND ELEVATION	79.61	79.85	79.89	79.94	79.98	80.02	80.06	80.12	80.16	80.16	80.17	80.16	80.15	80.12	79.96	79.80	80.24	80.68	81.12	81.56	81.91	
PROJECT ELEVATION						79.99	79.73	79.93	79.95	79.97	79.99	79.97	79.95	79.93	79.73	80.16	80.28					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+970.00



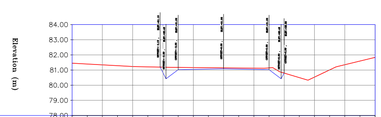
NATURAL GROUND ELEVATION	80.25	80.21	80.24	80.29	80.34	80.39	80.45	80.50	80.52	80.52	80.52	80.52	80.52	80.54	80.52	79.98	80.11	80.60	81.06	81.46	81.87	
PROJECT ELEVATION						80.45	80.13	80.33	80.35	80.37	80.39	80.37	80.35	80.33	80.12	80.50	80.57					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+975.84



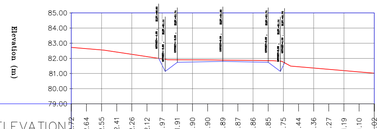
NATURAL GROUND ELEVATION	81.01	81.00	80.98	80.97	80.96	80.94	80.93	80.91	80.89	80.88	80.87	80.85	80.84	80.86	80.89	80.31	80.49	80.96	81.44	81.91	82.33	
PROJECT ELEVATION						80.96	80.95	80.52	80.74	80.76	80.76	80.78	80.76	80.74	80.72	80.52	80.70	80.71				
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+980.00



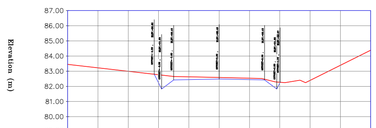
NATURAL GROUND ELEVATION	81.45	81.40	81.34	81.29	81.24	81.21	81.19	81.17	81.16	81.15	81.14	81.13	81.12	81.14	80.80	80.50	80.53	81.01	81.35	81.59	81.83	
PROJECT ELEVATION					81.25	81.22	80.82	81.02	81.04	81.06	81.08	81.06	81.04	81.02	80.80	80.85	80.89					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+990.00



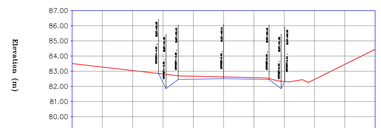
NATURAL GROUND ELEVATION	82.72	82.64	82.55	82.41	82.26	82.12	81.97	81.91	81.90	81.90	81.89	81.87	81.86	81.85	81.75	81.44	81.36	81.27	81.19	81.10	81.02	
PROJECT ELEVATION						82.06	82.03	81.54	81.74	81.76	81.78	81.80	81.78	81.76	81.74	81.54	81.64	81.56				
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

0+999.47



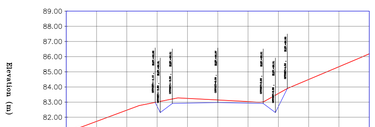
NATURAL GROUND ELEVATION	83.45	83.34	83.22	83.11	83.00	82.88	82.77	82.65	82.63	82.61	82.59	82.56	82.54	82.47	82.27	82.25	82.29	82.89	83.39	83.89	84.38	
PROJECT ELEVATION						82.85	82.82	82.23	82.45	82.47	82.49	82.47	82.45	82.43	82.22	82.28	82.29					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

1+000.00



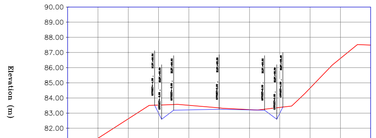
NATURAL GROUND ELEVATION	83.60	83.39	83.28	83.16	83.04	82.93	82.81	82.65	82.67	82.65	82.62	82.59	82.57	82.51	82.32	82.41	82.46	82.95	83.45	83.94	84.44	
PROJECT ELEVATION						82.87	82.25	82.45	82.47	82.49	82.51	82.49	82.47	82.45	82.25	82.31	82.32					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

1+010.00



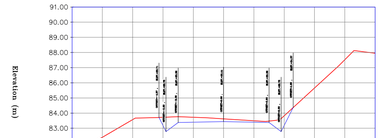
NATURAL GROUND ELEVATION	80.38	81.35	81.72	82.10	82.47	82.81	83.01	83.21	83.25	83.19	83.14	83.09	83.04	83.02	83.57	84.07	84.49	84.91	85.33	85.76	86.18	
PROJECT ELEVATION						83.42	82.71	82.91	82.93	82.95	82.97	82.95	82.93	82.91	82.71	83.74	83.34					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

1+016.08



NATURAL GROUND ELEVATION	80.05	80.69	81.34	81.98	82.62	83.26	83.53	83.57	83.51	83.43	83.34	83.28	83.23	83.25	83.37	83.67	84.65	85.69	86.60	87.42	87.49	
PROJECT ELEVATION						83.53	83.00	83.20	83.22	83.24	83.26	83.24	83.22	83.20	82.99	84.16	83.88					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

1+020.00



NATURAL GROUND ELEVATION	81.24	81.83	82.41	82.99	83.58	83.69	83.72	83.76	83.72	83.68	83.62	83.56	83.49	83.47	83.83	84.74	85.66	86.57	87.52	88.08	87.95	
PROJECT ELEVATION						83.77	83.78	83.58	83.40	83.42	83.44	83.42	83.40	83.38	83.18	84.27	84.03					
DIST. (m)	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	

NOTES

1-ALL COORDINATES AND ELEVATIONS ARE IN METER.

2-ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3-GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4-THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5-BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

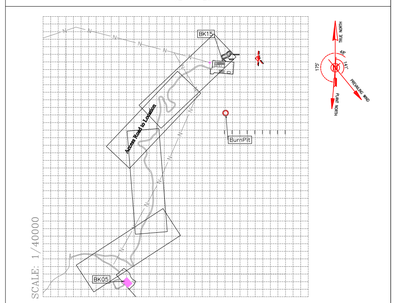
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VERTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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

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

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	28 OF 49	D00

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

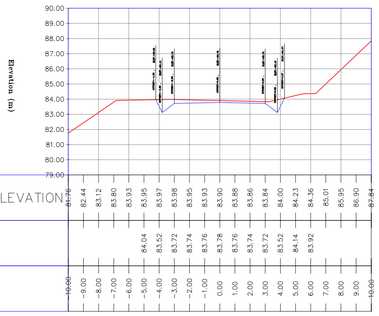
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

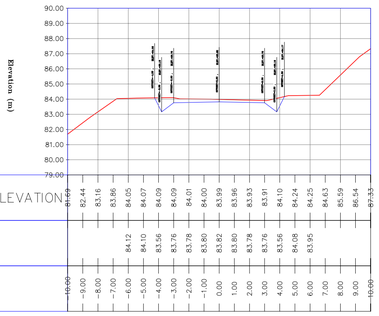
APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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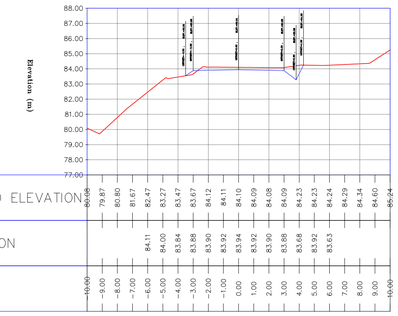
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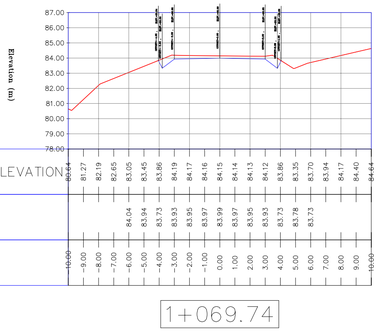
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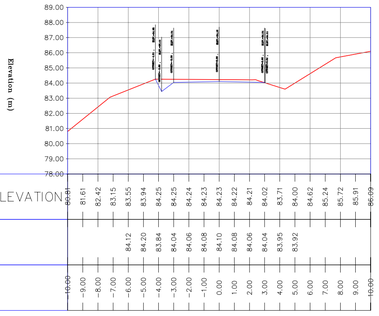
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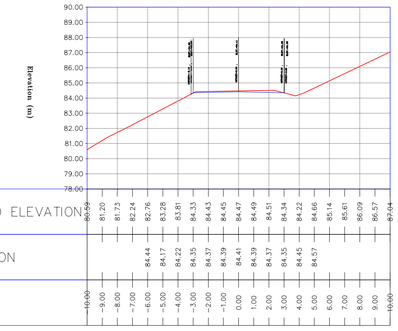
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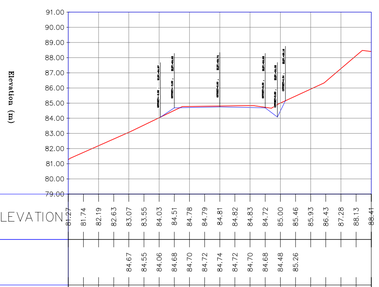
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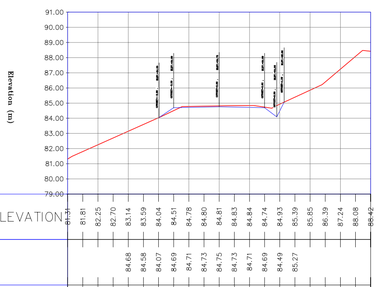
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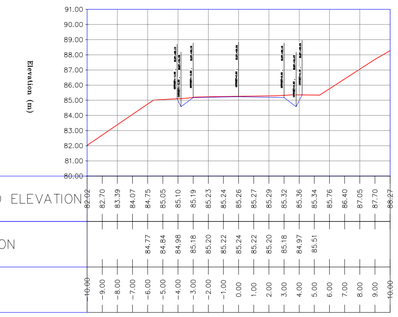
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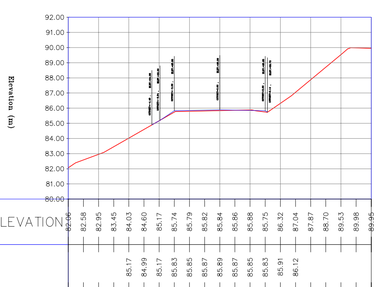
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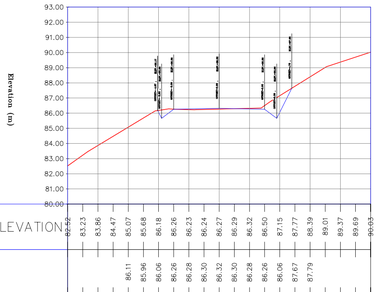
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1+090.00



1+096.49



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- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

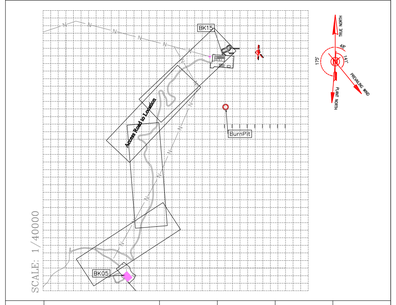
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	29 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

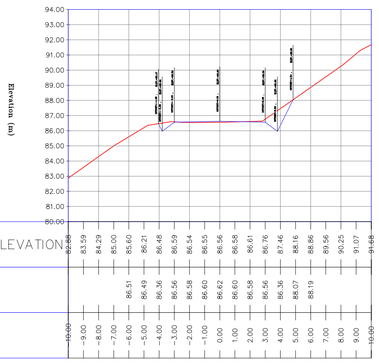
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

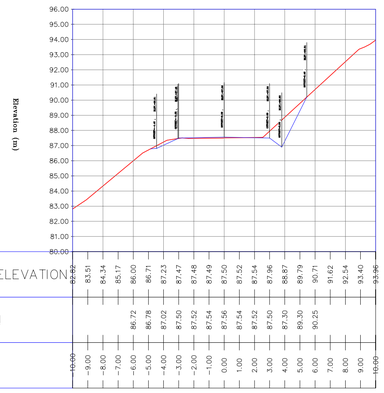
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1+100.00



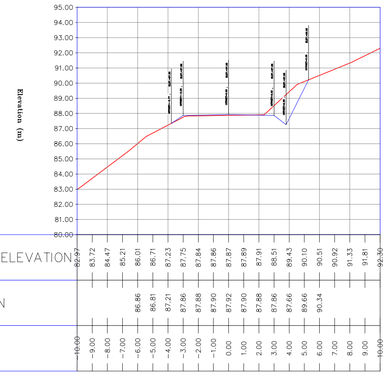
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PROJECT ELEVATION						86.51	86.49	86.36	86.58	86.58	86.60	86.62	86.60	86.58	86.56	86.36	88.07	88.19				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+110.00



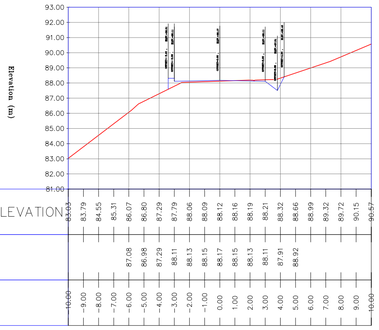
NATURAL GROUND ELEVATION	82.82	83.51	84.34	85.17	86.00	86.71	87.23	87.47	87.50	87.49	87.50	87.52	87.54	87.96	88.87	89.79	90.71	91.62	92.54	93.40	93.96	
PROJECT ELEVATION						86.72	86.78	87.02	87.52	87.54	87.54	87.52	87.50	87.30	89.30	90.25						
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+113.76



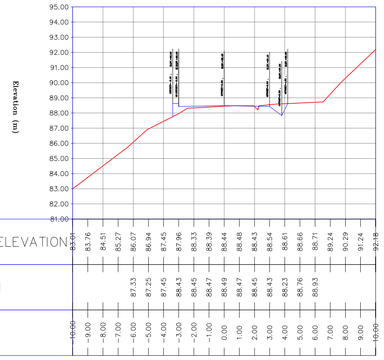
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PROJECT ELEVATION						86.86	86.81	87.21	87.86	87.88	87.90	87.92	87.90	87.88	87.86	87.66	89.66	90.54				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+116.06



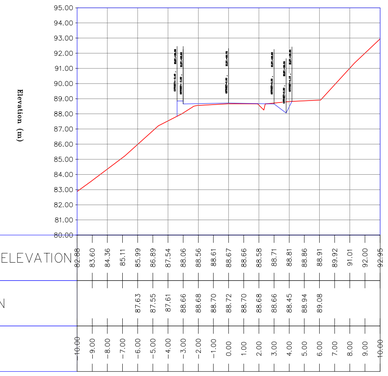
NATURAL GROUND ELEVATION	83.53	83.79	84.55	85.31	86.07	86.80	87.29	87.79	88.06	88.09	88.12	88.16	88.19	88.21	88.32	88.46	88.99	89.32	89.72	90.15	90.67	
PROJECT ELEVATION						87.08	86.98	87.29	88.11	88.13	88.15	88.17	88.15	88.13	88.11	87.91	88.92					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+118.35



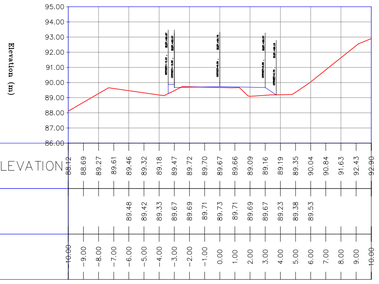
NATURAL GROUND ELEVATION	83.54	83.76	84.51	85.27	86.07	86.84	87.45	87.96	88.33	88.39	88.44	88.48	88.43	88.54	88.61	88.66	88.39	89.24	90.29	91.24	92.18	
PROJECT ELEVATION						87.33	87.25	87.45	88.43	88.45	88.47	88.49	88.47	88.45	88.43	88.23	88.76	88.93				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+120.00



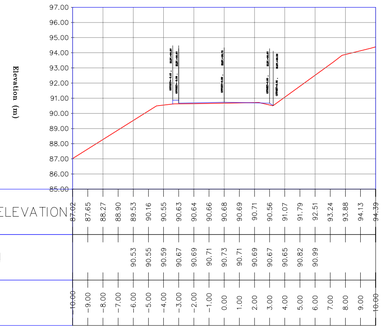
NATURAL GROUND ELEVATION	82.88	83.60	84.36	85.11	85.99	86.89	87.54	88.06	88.56	88.61	88.67	88.66	88.58	88.71	88.81	88.86	88.91	89.92	91.01	92.00	92.95	
PROJECT ELEVATION						87.63	87.55	87.61	88.66	88.68	88.70	88.72	88.70	88.68	88.66	88.45	88.94	89.08				
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+130.00



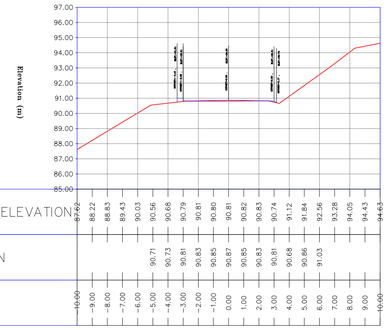
NATURAL GROUND ELEVATION	85.12	88.69	89.27	89.61	89.46	89.32	89.18	89.47	89.72	89.70	89.67	89.66	89.09	89.16	89.19	89.35	90.04	90.84	91.63	92.43	92.90	
PROJECT ELEVATION					89.48	89.42	89.33	89.67	89.69	89.71	89.73	89.71	89.69	89.67	89.23	89.38	89.53					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+138.57



NATURAL GROUND ELEVATION	87.26	87.65	88.27	88.90	89.53	90.16	90.35	90.63	90.64	90.66	90.68	90.69	90.71	90.56	91.07	91.79	92.51	93.24	93.88	94.13	94.39	
PROJECT ELEVATION					90.53	90.55	90.59	90.67	90.69	90.71	90.73	90.71	90.69	90.67	90.65	90.82	90.99					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+140.00



NATURAL GROUND ELEVATION	87.62	88.22	88.83	89.43	90.03	90.56	90.68	90.79	90.81	90.80	90.81	90.82	90.83	90.74	91.12	91.84	92.56	93.28	94.05	94.43	94.63	
PROJECT ELEVATION						90.71	90.73	90.81	90.83	90.85	90.87	90.85	90.83	90.81	90.68	90.86	91.03					
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
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7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

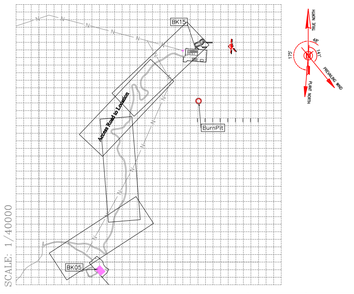
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
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BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

DOO	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	30 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

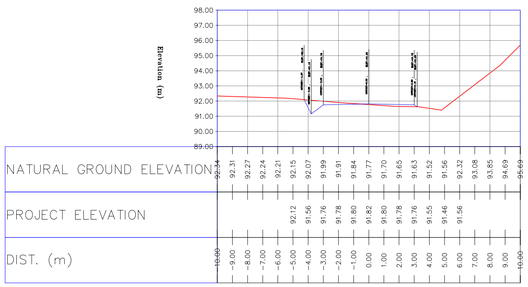
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

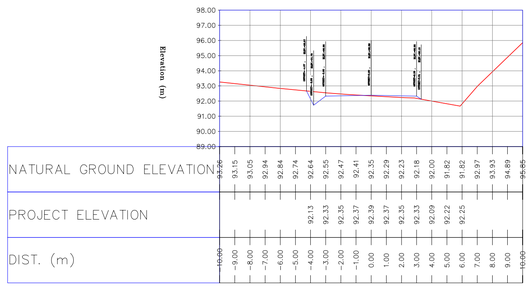
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	30	D00

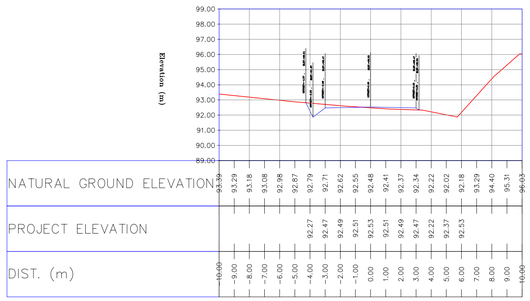
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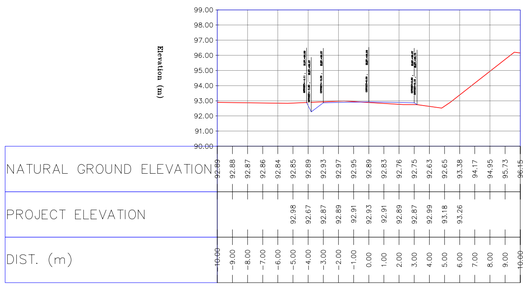
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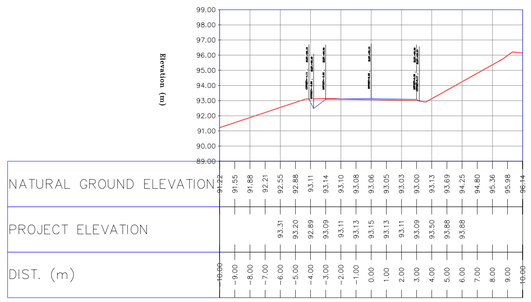
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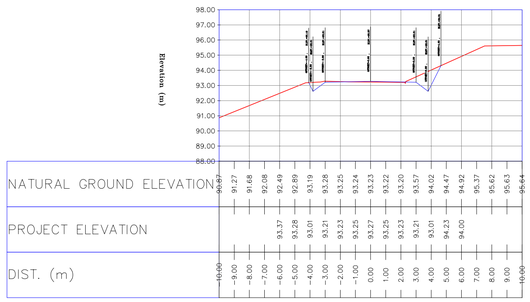
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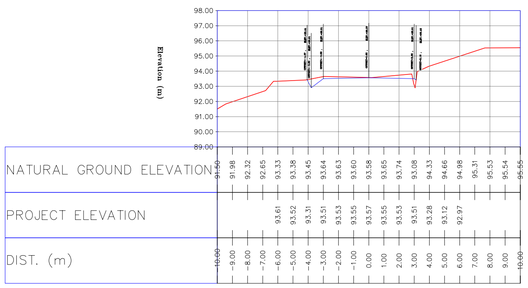
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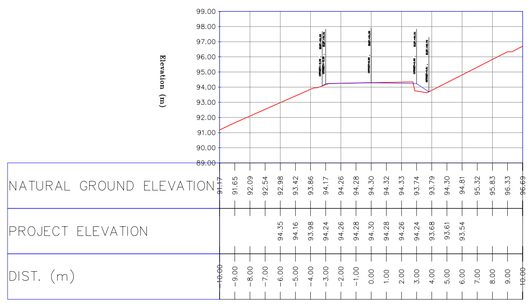
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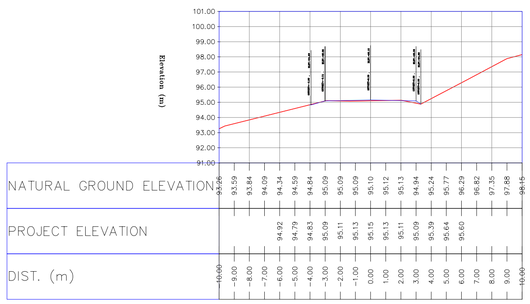
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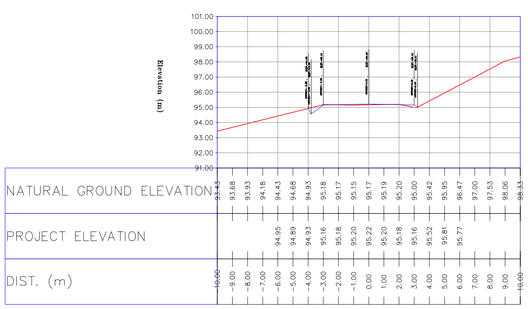
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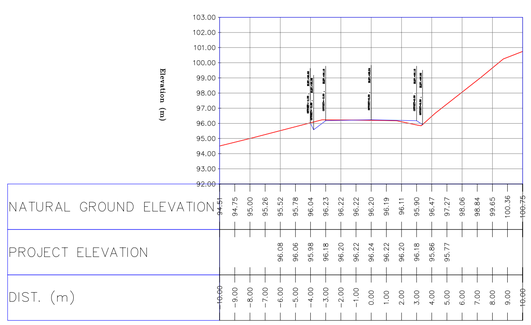
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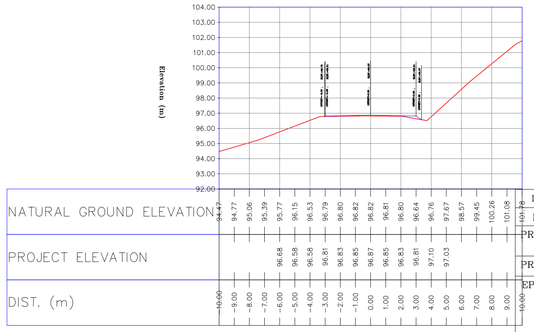
1+210.67



1+220.00



1+225.62



NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.

2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

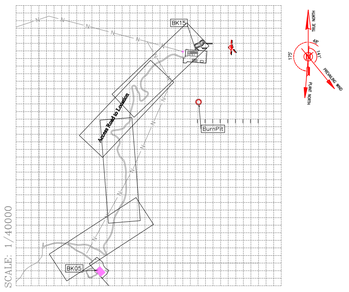
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	31 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

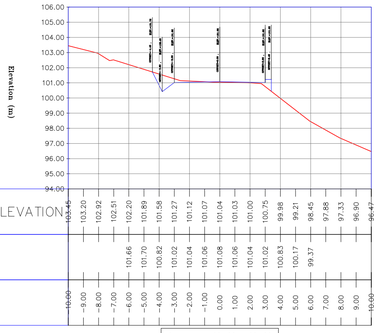
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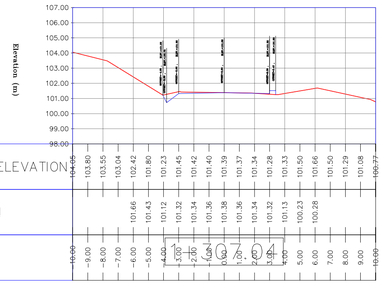

Elevation (m)
105.00
104.00
103.00
102.00
101.00
100.00
99.00
98.00
97.00
96.00
95.00
94.00
93.00
92.00

| | | |

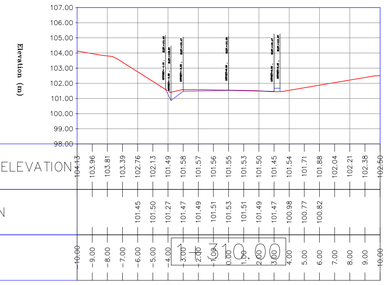
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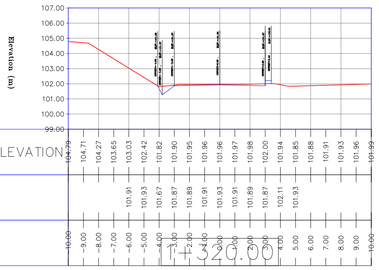
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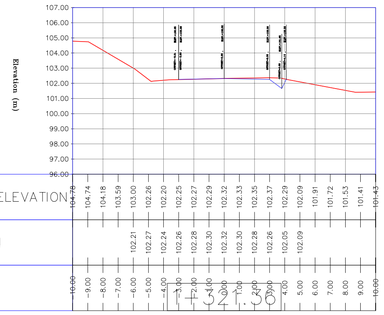
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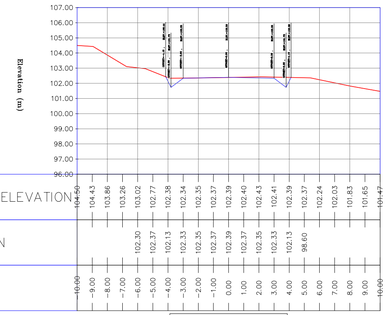
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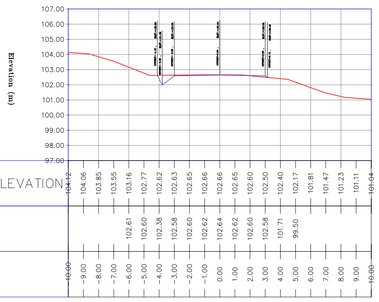
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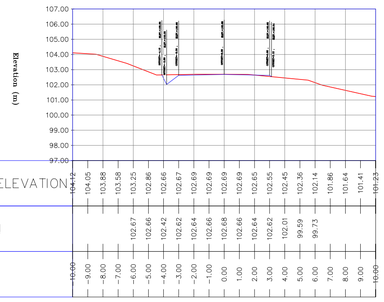


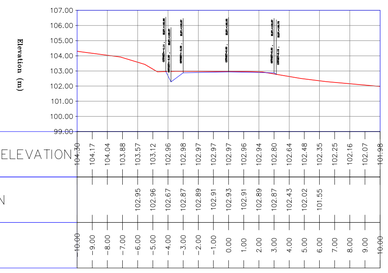
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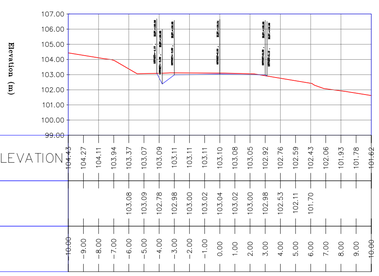
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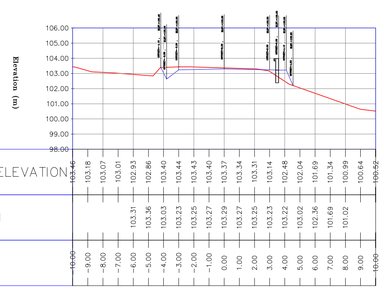




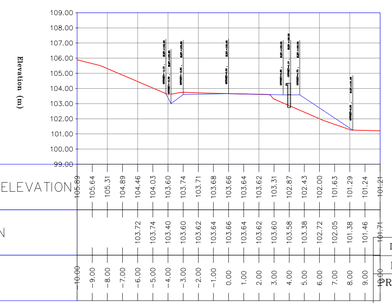
1+333.04



1+340.00



1+350.00



NOTES

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2-ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3-GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
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6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

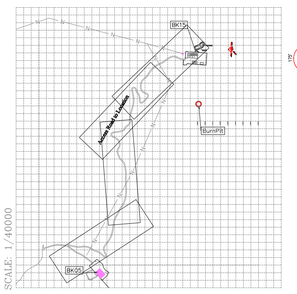
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
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BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

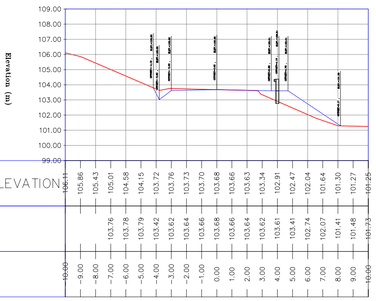
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APPROVED FOR CONSTRUCTION | BY: | DATE:

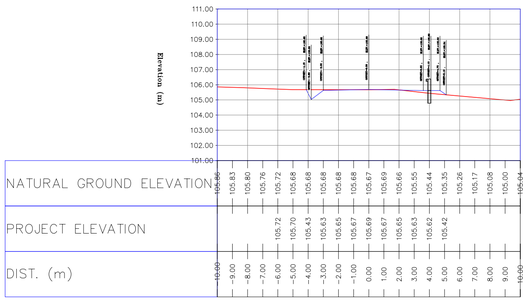
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	33 OF 49	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	33	D00

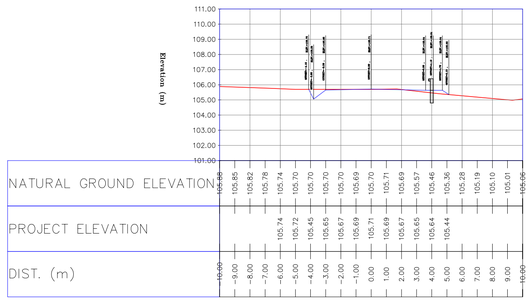
1+350.60


Elevation (m)
109.00
108.00
107.00
106.00
105.00
104.00
103.00
102.00
101.00
100.00
99.00
WELL
WELL
WELL

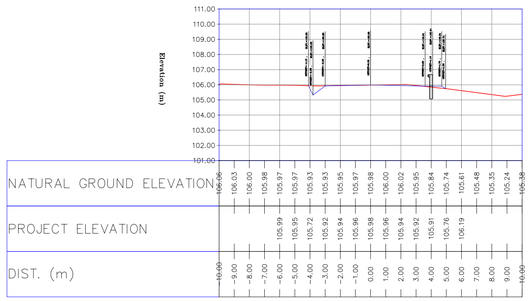
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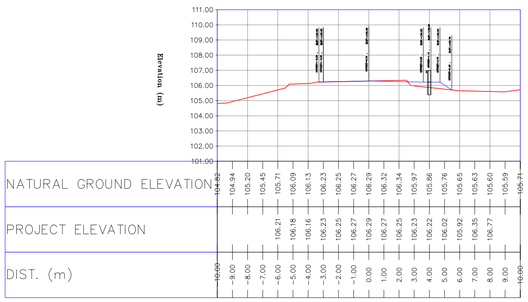
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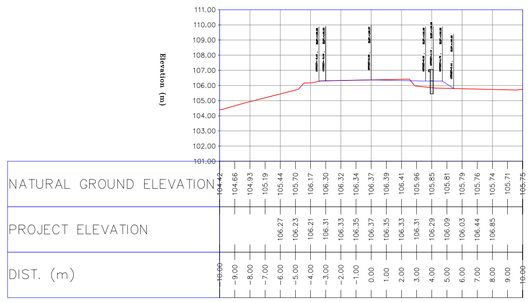
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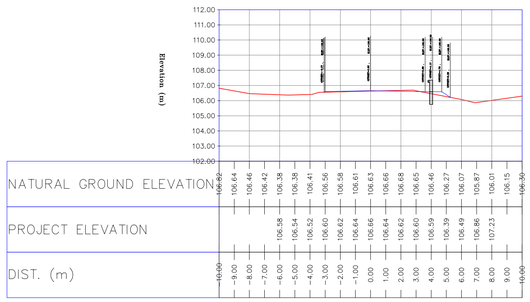
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1+470.00



1+480.00

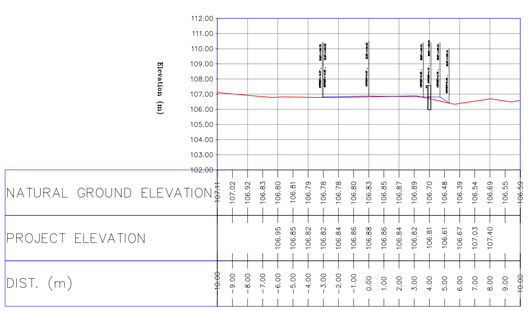


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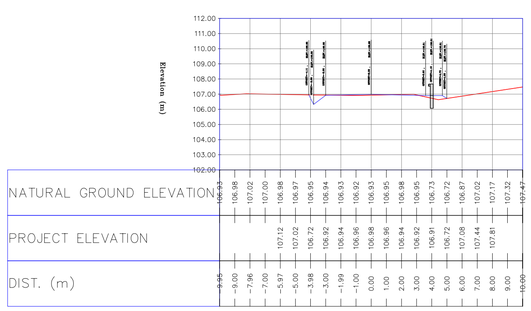
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1+500.00

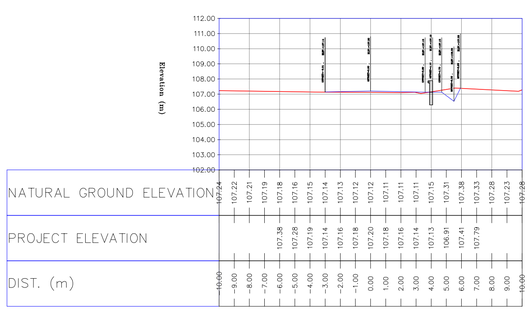
1+510.00



1+520.00



1+530.00



NOTES

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HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

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8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

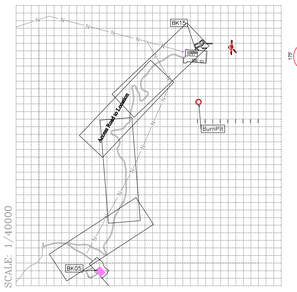
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	35 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

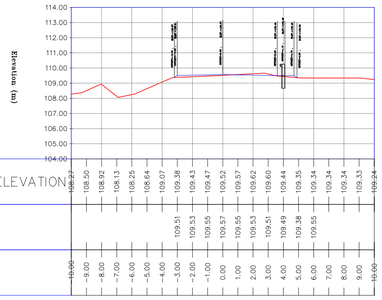
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

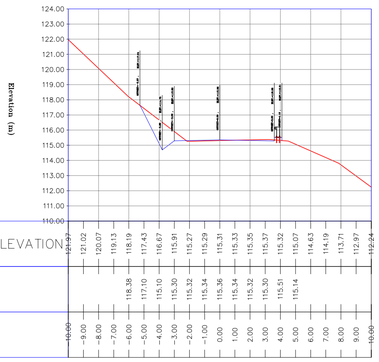
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	35	D00

1+533.46


Elevation (m)
114.00
113.00
112.00
111.00
110.00
109.00
108.00
107.00
106.00
105.00
104.00

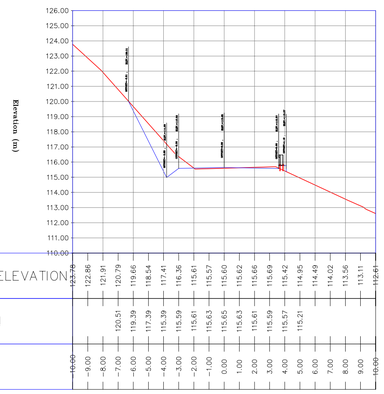
| | | |

1+590.00



NATURAL GROUND ELEVATION	121.37	121.02	120.07	119.13	118.19	117.43	116.67	115.91	115.27	115.29	115.31	115.33	115.35	115.37	115.32	115.07	114.63	114.19	113.71	112.97	112.24				
PROJECT ELEVATION					118.38	117.10	116.07	115.30	115.32	115.34	115.36	115.34	115.32	115.30	115.31	115.14									
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+594.60



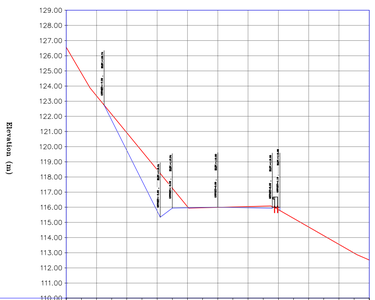
NATURAL GROUND ELEVATION	125.78	122.86	121.91	120.79	119.66	118.54	117.41	116.26	115.61	115.57	115.60	115.62	115.66	115.69	115.42	114.95	114.49	114.02	113.56	113.11	112.61				
PROJECT ELEVATION				120.51	119.39	117.39	115.99	115.99	115.61	115.63	115.63	115.63	115.61	115.59	115.57	115.21									
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+600.00



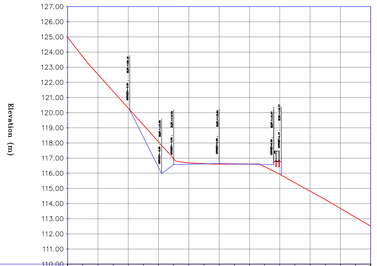
NATURAL GROUND ELEVATION	126.50	124.79	123.35	122.13	120.91	119.69	118.47	117.25	116.03	115.95	115.98	116.00	116.03	115.95	115.98	116.00	116.03	115.84	115.27	114.69	114.12	113.55	112.98	112.62	
PROJECT ELEVATION		122.88	121.73	120.73	119.75	117.73	115.73	115.93	115.95	115.97	115.99	115.97	115.95	115.93	115.96	115.98	115.63								
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+600.16



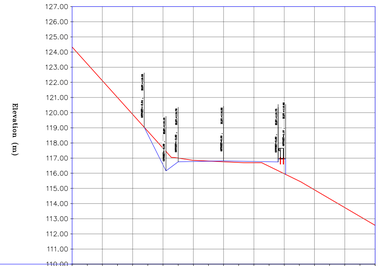
NATURAL GROUND ELEVATION	125.56	124.85	123.35	122.13	120.91	119.69	118.48	117.26	116.04	115.97	115.99	116.00	116.04	115.96	115.98	115.84	115.27	114.70	114.12	113.55	112.98	112.62			
PROJECT ELEVATION		122.98	121.74	119.74	117.74	115.74	115.94	115.96	115.98	115.98	115.96	115.94	115.98	115.65	115.27										
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+610.00



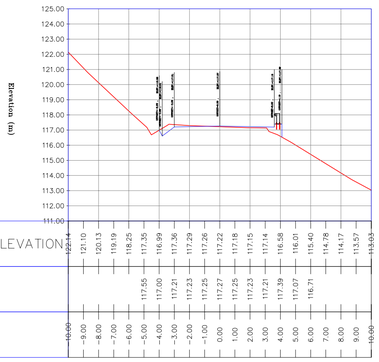
NATURAL GROUND ELEVATION	124.97	123.68	122.52	121.40	120.29	119.18	118.07	116.96	116.88	116.64	116.60	116.61	116.61	116.43	115.93	115.38	114.82	114.27	113.68	113.10	112.61				
PROJECT ELEVATION				120.24	118.38	116.38	116.58	116.60	116.62	116.64	116.62	116.60	116.58	116.77	116.44	116.07									
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+612.63



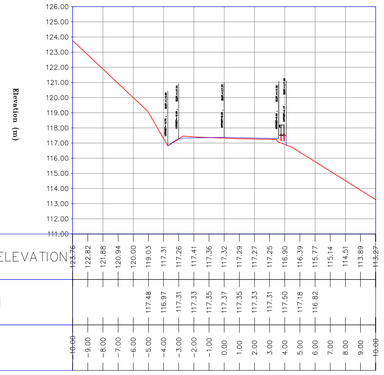
NATURAL GROUND ELEVATION	124.33	123.22	122.10	120.99	119.88	118.77	117.66	117.00	116.85	116.81	116.76	116.71	116.70	116.46	115.97	115.48	114.91	114.32	113.73	113.15	112.56				
PROJECT ELEVATION				119.46	118.56	116.56	116.76	116.78	116.80	116.82	116.78	116.76	116.95	116.63	116.27										
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+620.00



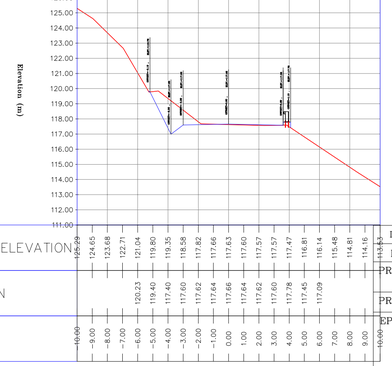
NATURAL GROUND ELEVATION	122.14	121.10	120.13	119.19	118.25	117.35	116.99	117.00	117.21	117.23	117.29	117.26	117.22	117.27	117.18	117.15	117.14	116.58	116.01	115.40	114.78	114.17	113.57	113.03	
PROJECT ELEVATION						117.55																			
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+622.50



NATURAL GROUND ELEVATION	125.76	122.82	121.88	120.94	120.00	119.03	117.51	117.26	117.41	117.33	117.36	117.32	117.29	117.27	117.25	116.90	116.39	115.77	115.14	114.51	113.89	113.27			
PROJECT ELEVATION						117.48	116.97	117.31	117.33	117.35	117.35	117.33	117.31	117.50	117.18	116.82									
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+630.00



NATURAL GROUND ELEVATION	125.29	124.65	123.68	122.71	121.04	119.80	119.35	118.58	117.82	117.66	117.63	117.60	117.64	117.66	117.63	117.57	117.57	117.47	116.81	116.14	115.48	114.81	114.16	113.83	
PROJECT ELEVATION					120.23	119.40	117.40	117.60	117.62	117.64	117.62	117.60	117.78	117.45	117.09										
DIST. (m)	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.
2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

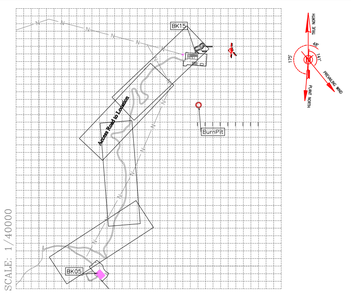
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
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Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
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Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

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PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

DOO	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	37 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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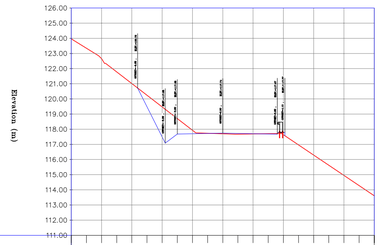
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

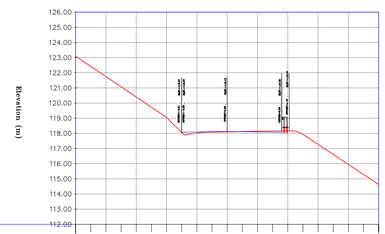
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	37	D00

1+632.37



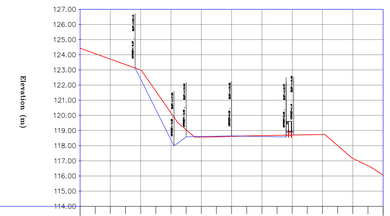
NATURAL GROUND ELEVATION	123.27	123.34	122.66	121.78	121.01	120.24	119.47	118.70	117.93	117.73	117.70	117.68	117.69	117.71	117.64	116.97	116.30	115.63	114.95	114.28	113.61				
PROJECT ELEVATION				120.92	120.77	119.48	117.48	117.68	117.70	117.72	117.72	117.70	117.68	117.77	117.44	117.08									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+640.00



NATURAL GROUND ELEVATION	123.09	122.41	121.74	121.07	120.39	119.72	119.04	118.05	118.02	118.10	118.12	118.14	118.15	118.17	117.93	117.27	116.61	115.95	115.29	114.63					
PROJECT ELEVATION				121.54	121.57	120.52	119.29	118.07	118.09	118.11	118.11	118.09	118.07	118.37	117.99	117.58									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+650.00



NATURAL GROUND ELEVATION	124.43	124.07	123.71	123.35	122.99	121.60	120.16	119.04	118.57	118.58	118.61	118.65	118.66	118.68	118.70	118.72	118.74	118.01	117.17	116.68	116.05				
PROJECT ELEVATION			122.90	123.04	122.39	120.39	118.39	118.59	118.61	118.63	118.65	118.63	118.61	118.59	118.90	118.52	118.10								
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+660.00



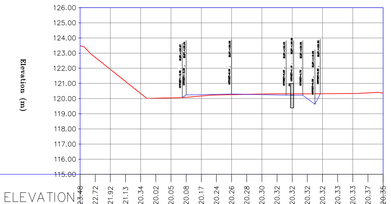
NATURAL GROUND ELEVATION	124.60	124.35	123.73	123.09	122.46	121.83	120.89	119.86	119.16	119.13	119.16	119.19	119.24	119.29	119.33	119.20	118.56	117.92	117.29	116.65	116.02				
PROJECT ELEVATION				122.14	122.18	122.22	120.96	119.16	119.20	119.22	119.20	119.18	119.16	119.54	118.93	118.65									
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+662.18



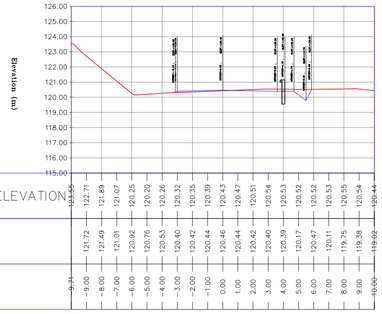
NATURAL GROUND ELEVATION	123.22	122.91	122.52	122.13	121.74	121.12	120.49	119.33	119.35	119.38	119.41	119.44	119.48	119.52	119.39	119.11	118.41	117.70	117.00	116.30					
PROJECT ELEVATION				121.74	121.82	121.61	121.36	121.11	119.16	119.36	119.40	119.42	119.38	119.36	119.35	119.12	119.14								
DIST. (m)	9+75	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+670.00



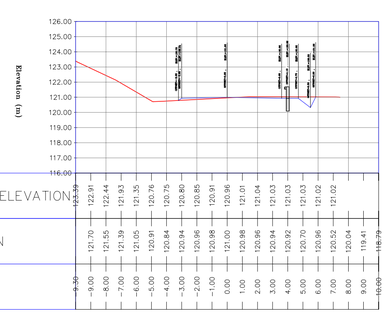
NATURAL GROUND ELEVATION	123.46	122.72	121.92	121.13	120.34	120.02	120.05	120.08	120.17	120.24	120.26	120.28	120.30	120.32	120.32	120.32	120.33	120.37	120.35						
PROJECT ELEVATION			121.74	121.51	121.03	120.93	120.73	120.41	120.24	120.28	120.30	120.28	120.26	120.24	120.23	120.26	120.32	120.32	119.82	119.39					
DIST. (m)	9+95	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+672.51



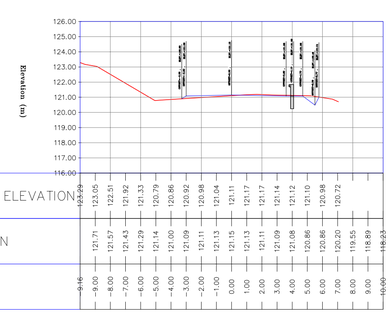
NATURAL GROUND ELEVATION	123.55	122.71	121.89	121.07	120.25	120.20	120.26	120.32	120.39	120.43	120.47	120.51	120.54	120.52	120.52	120.53	120.55	120.54	120.44						
PROJECT ELEVATION			121.49	121.01	120.92	120.76	120.53	120.40	120.44	120.46	120.42	120.40	120.39	120.17	120.11	119.75	119.38	119.02							
DIST. (m)	9+71	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+680.00



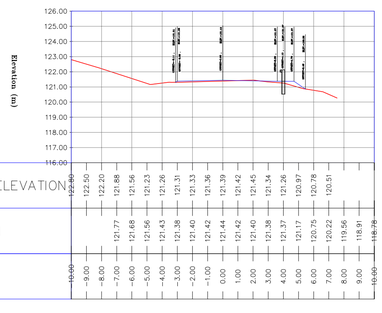
NATURAL GROUND ELEVATION	123.39	122.91	122.44	121.93	121.35	120.76	120.75	120.80	120.85	120.91	120.96	121.01	121.04	121.03	121.03	121.02	121.02								
PROJECT ELEVATION			121.55	121.39	121.05	120.91	120.84	120.94	120.95	120.98	120.98	120.96	120.94	120.92	120.70	120.96	120.94	119.41							
DIST. (m)	9+30	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+682.83



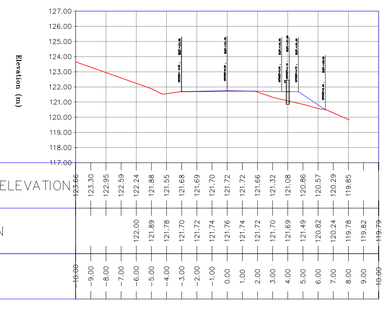
NATURAL GROUND ELEVATION	123.29	123.05	122.51	121.92	121.33	120.79	120.86	120.92	120.98	121.04	121.11	121.17	121.17	121.14	121.12	121.10	120.98	120.72							
PROJECT ELEVATION			121.57	121.43	121.29	121.14	121.00	121.09	121.13	121.11	121.13	121.11	121.08	120.86	120.86	120.20	119.55	118.89							
DIST. (m)	9+16	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+690.00



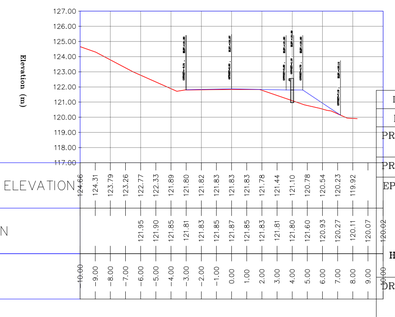
NATURAL GROUND ELEVATION	123.60	122.80	122.20	121.88	121.56	121.23	121.26	121.31	121.36	121.39	121.42	121.44	121.45	121.34	121.26	120.97	120.78	120.51							
PROJECT ELEVATION			121.77	121.68	121.56	121.43	121.38	121.40	121.42	121.42	121.40	121.38	121.37	121.17	120.75	120.22	119.56	118.91							
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+697.42



NATURAL GROUND ELEVATION	123.66	123.30	122.95	122.59	122.24	121.88	121.55	121.68	121.69	121.70	121.72	121.72	121.66	121.32	121.08	120.86	120.57	120.29	119.85	119.82	119.79				
PROJECT ELEVATION			122.00	121.89	121.78	121.72	121.74	121.76	121.72	121.72	121.70	121.69	121.49	120.82	120.24	119.78	119.82	119.79							
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

1+700.00



NATURAL GROUND ELEVATION	124.66	124.31	123.79	123.26	122.77	122.33	121.89	121.80	121.82	121.83	121.83	121.83	121.87	121.83	121.78	121.44	121.10	120.78	120.54	120.23	119.92	120.02			
PROJECT ELEVATION			123.26	122.77	121.95	121.90	121.85	121.81	121.83	121.85	121.85	121.83	121.83	121.81	121.78	121.80	121.60	120.93	120.77	120.11					
DIST. (m)	10+00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00				

NOTES

1-ALL COORDINATES AND ELEVATIONS ARE IN METER.

2-ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3-GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4-THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5-BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

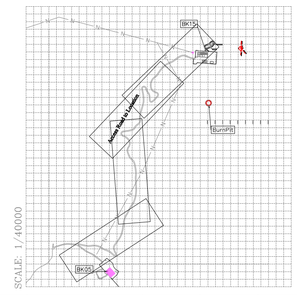
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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

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

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

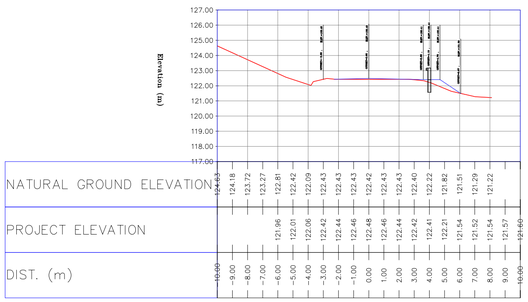
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION | BY: | DATE:

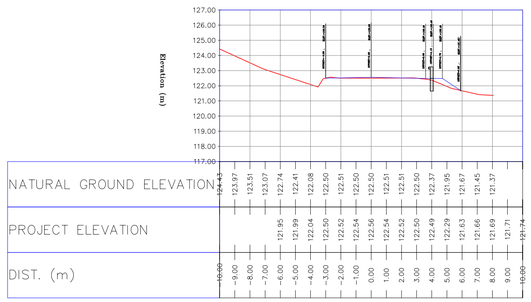
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	38 OF 49	D00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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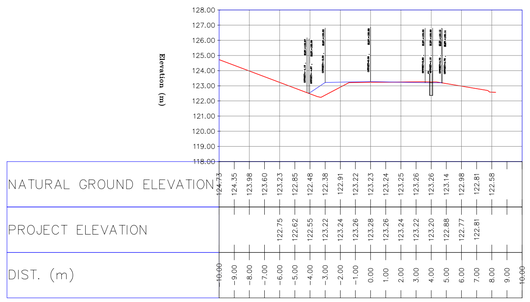
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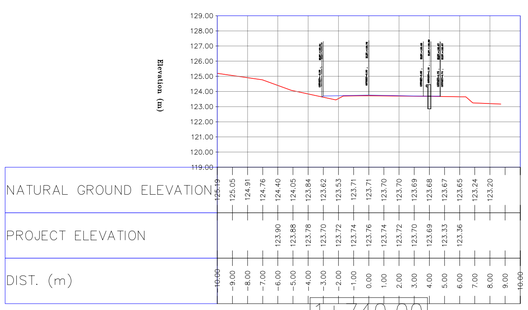
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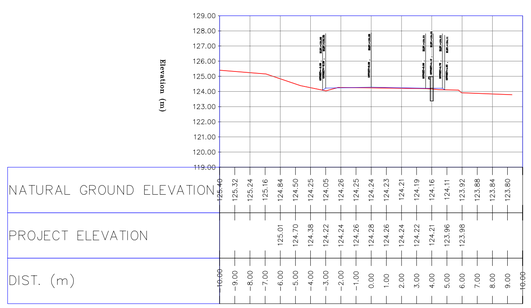
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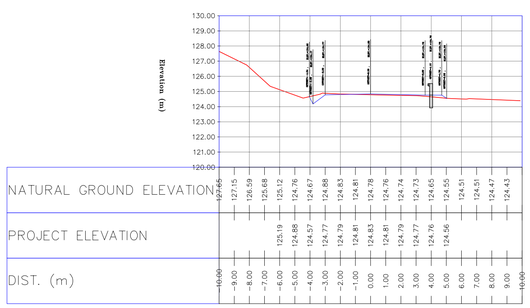
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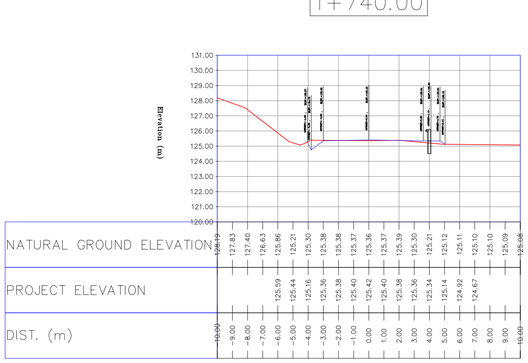
1+730.00



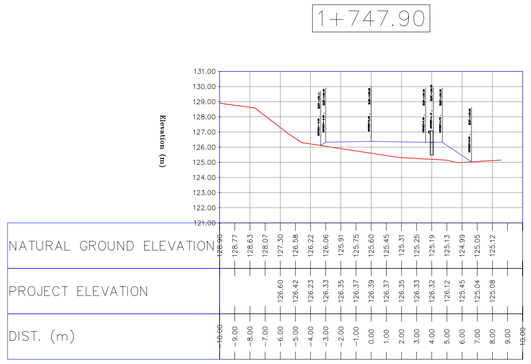
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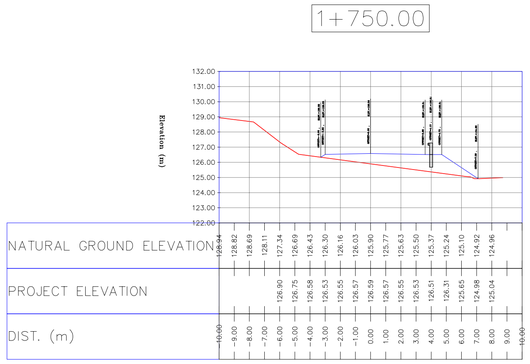
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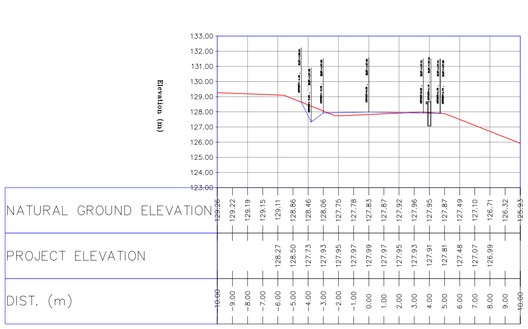
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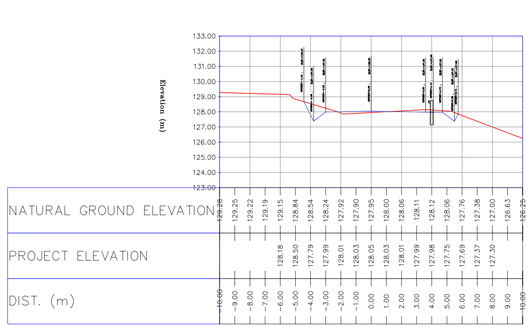
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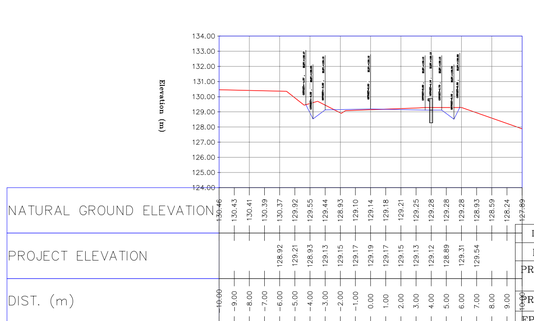
1+760.00



1+760.59



1+770.00



NOTES

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
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VERTICAL DATUM:	MSL

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8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

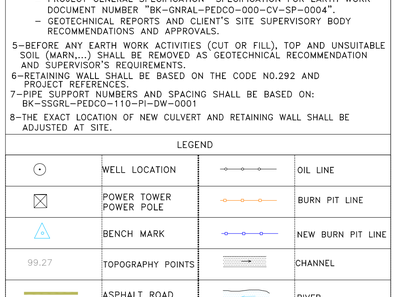
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

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EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR:
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	39 OF 49	D00

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

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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

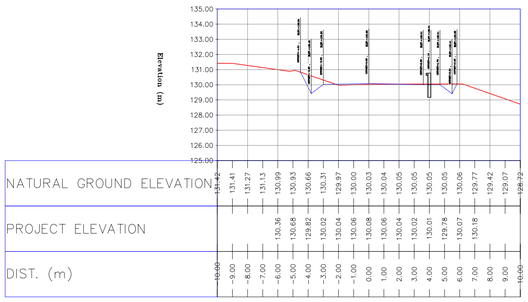
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

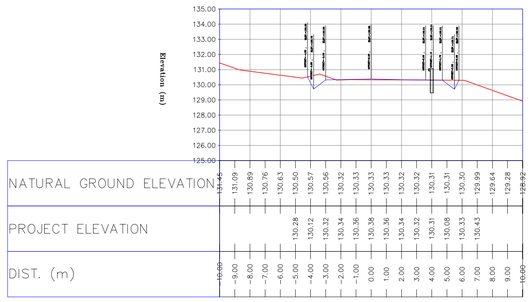
APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	39	D00

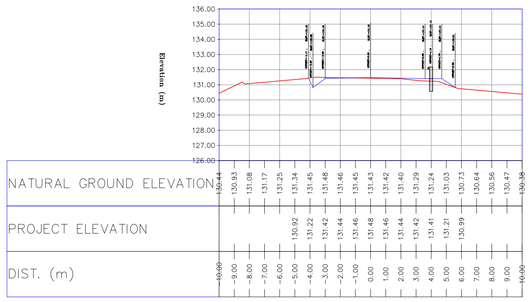
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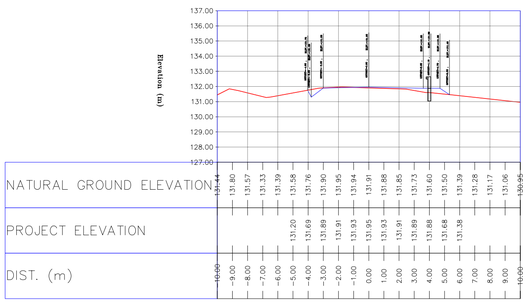
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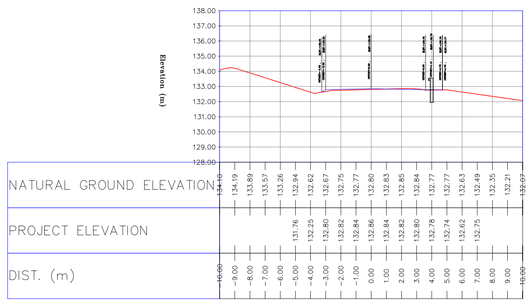
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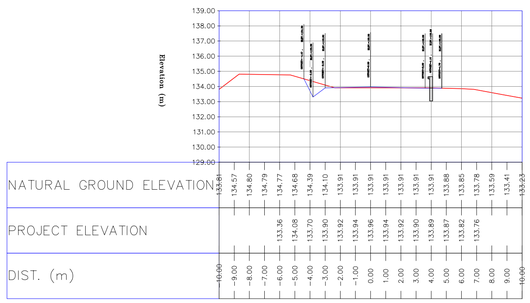
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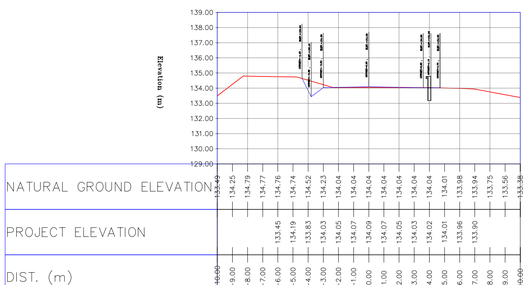
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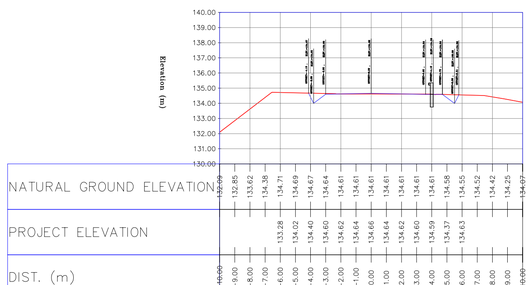
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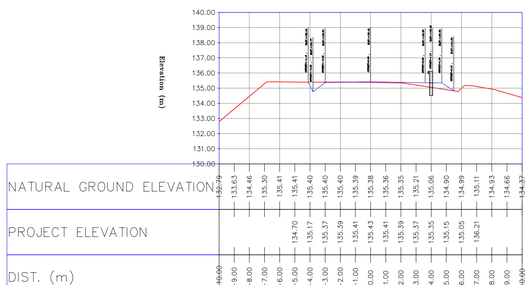
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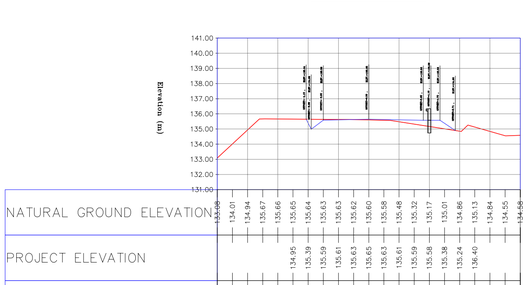
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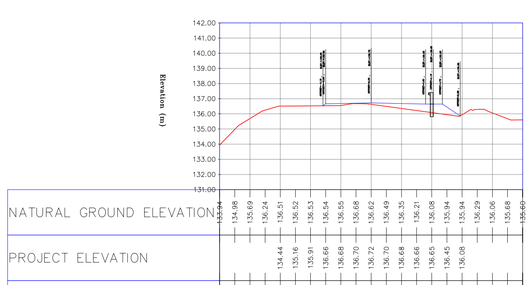
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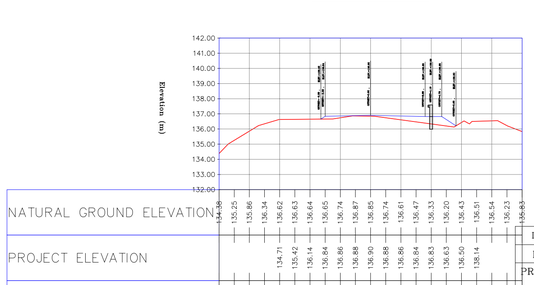
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1+828.85



1+830.00



NOTES

1- ALL COORDINATES AND ELEVATIONS ARE IN METER.

2- ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.

3- GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4- THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5- BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.

6- RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.

7- PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001

8- THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

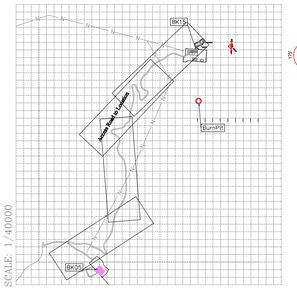
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N—N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout – BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
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BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
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KEY PLAN



REV.	DESCRIPTION	CHECKED BY	CHECKED DATE	REV. APPR. BY	REV. APPR. DATE
***	**********	**.**	***.****	**.**	***.****
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	40 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

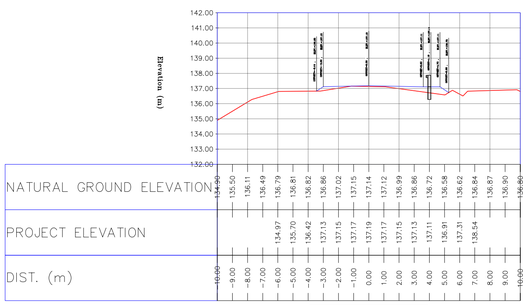
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

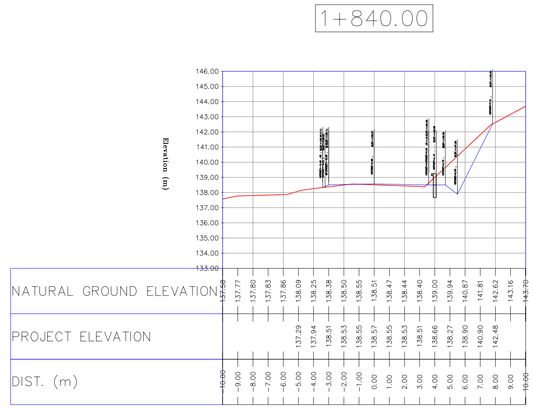
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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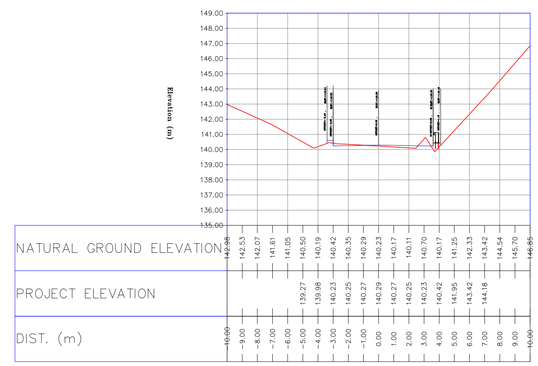
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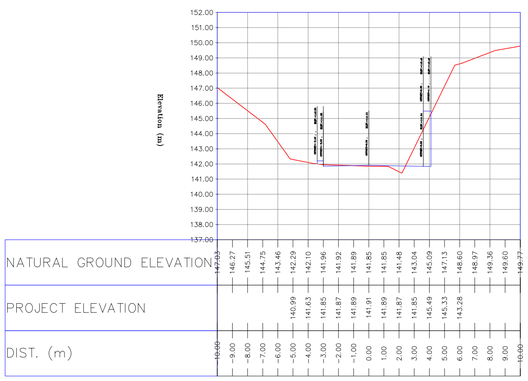
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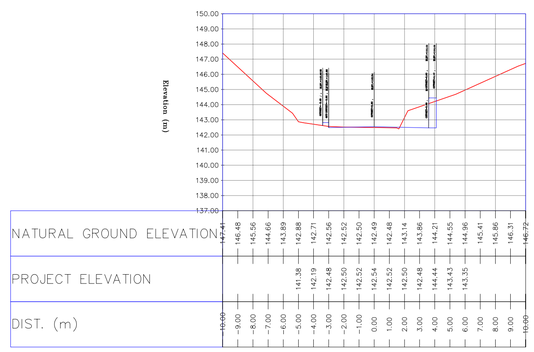
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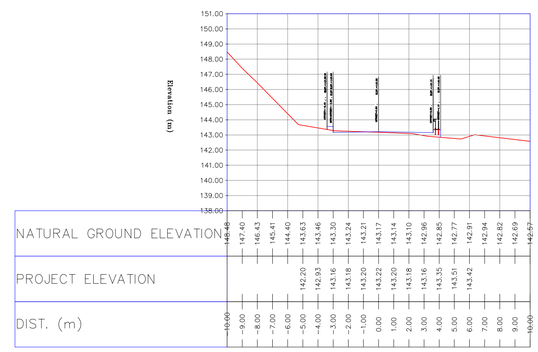
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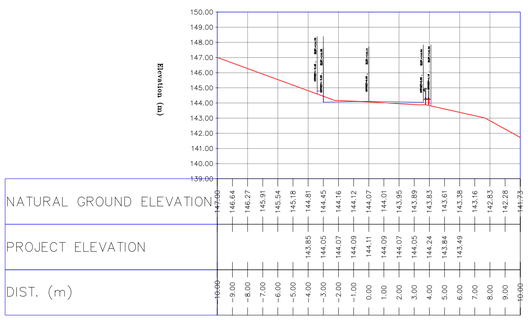
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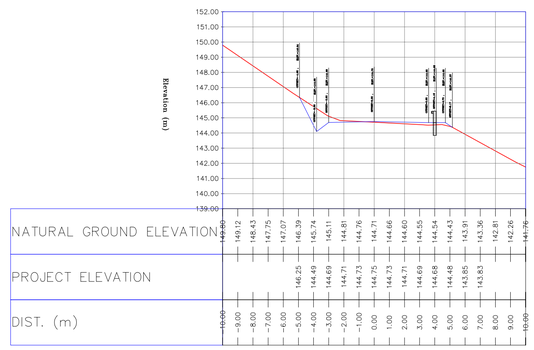
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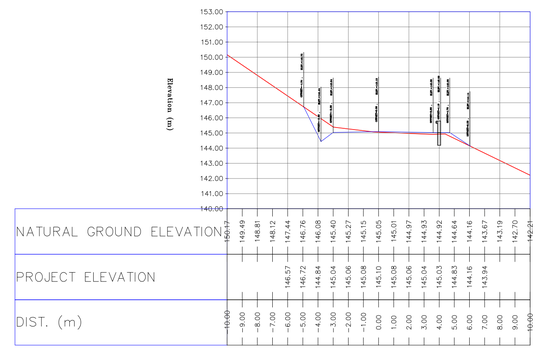
1+880.00



1+890.00



1+896.59



NOTES

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VERTICAL DATUM:	MSL

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LEGEND

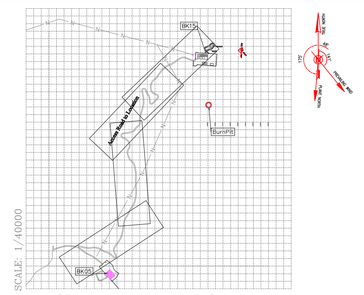
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⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N—N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan–BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report – BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works – BK15	BK-BK15-PEDCO-110-CV-MT-0001
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Over Head Line Plan and Profile–BK15	BK-BK15-PEDCO-110-SU-DW-0001

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KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	** **

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	41 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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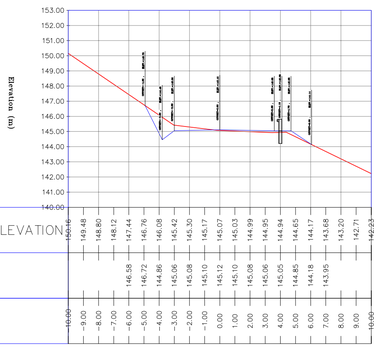
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

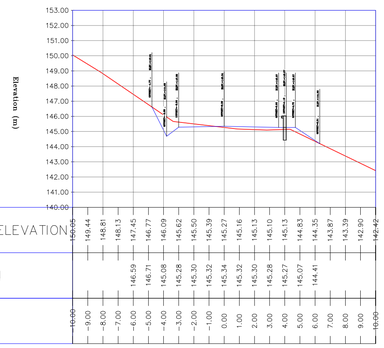
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	41	D00

1+896.96



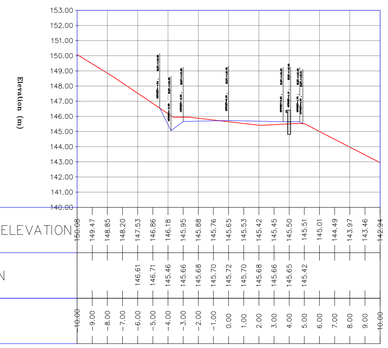
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PROJECT ELEVATION					146.58	146.72	144.86	145.06	145.08	145.10	145.12	145.10	145.08	145.06	145.05	144.85	144.18	143.95			
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+900.00



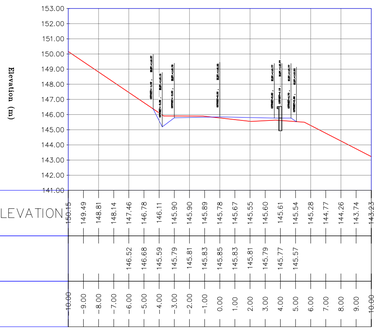
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PROJECT ELEVATION					146.59	146.71	146.08	145.28	145.30	145.32	145.34	145.32	145.30	145.28	145.27	145.07	144.41				
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+906.53



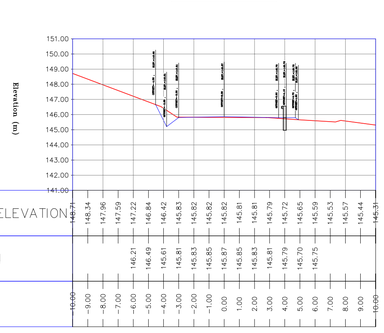
NATURAL GROUND ELEVATION	150.08	149.47	148.85	148.20	147.53	146.86	146.18	145.95	145.88	145.76	145.65	145.53	145.42	145.45	145.50	145.51	145.01	144.49	143.97	143.46	142.94
PROJECT ELEVATION					146.61	146.71	145.46	145.66	145.68	145.70	145.72	145.70	145.68	145.66	145.65	145.42					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+910.00



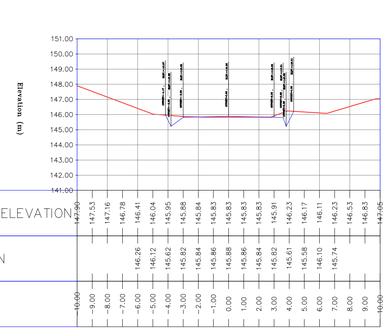
NATURAL GROUND ELEVATION	150.15	149.49	148.81	148.14	147.46	146.78	146.11	145.90	145.90	145.89	145.78	145.67	145.55	145.60	145.61	145.54	145.28	144.77	144.26	143.74	143.23
PROJECT ELEVATION					146.58	146.68	145.59	145.79	145.81	145.83	145.85	145.83	145.81	145.79	145.77	145.57					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+916.11



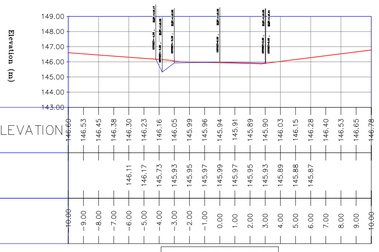
NATURAL GROUND ELEVATION	145.71	148.34	147.96	147.59	147.22	146.84	146.42	145.83	145.82	145.82	145.81	145.81	145.79	145.72	145.65	145.59	145.53	145.44	145.31		
PROJECT ELEVATION					146.21	146.49	145.61	145.83	145.85	145.85	145.83	145.83	145.81	145.79	145.75	145.75					
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+920.00



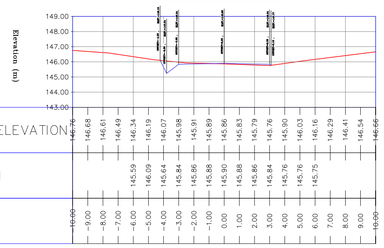
NATURAL GROUND ELEVATION	147.90	147.53	147.16	146.78	146.41	146.04	145.95	145.88	145.84	145.83	145.83	145.83	145.91	146.23	146.17	146.11	146.10	146.23	146.53	146.83	147.05
PROJECT ELEVATION					146.26	146.12	145.62	145.82	145.86	145.86	145.84	145.88	145.86	145.84	145.82	145.61	145.58	145.74			
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+930.00



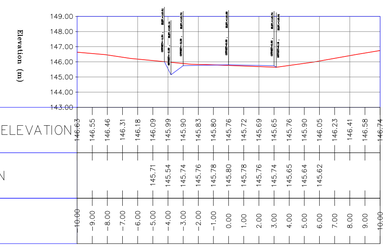
NATURAL GROUND ELEVATION	146.60	146.53	146.45	146.38	146.30	146.23	146.16	146.05	145.99	145.96	145.94	145.91	145.90	146.03	146.15	146.28	146.40	146.53	146.65	146.78	
PROJECT ELEVATION					146.11	146.17	145.73	145.93	145.95	145.97	145.99	145.97	145.95	145.93	145.89	145.88	145.87	145.87			
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+934.93



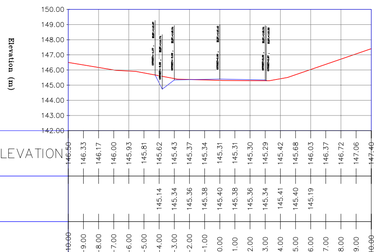
NATURAL GROUND ELEVATION	146.76	146.68	146.61	146.49	146.34	146.19	146.07	145.98	145.91	145.89	145.88	145.86	145.83	145.79	145.90	146.03	146.16	146.29	146.41	146.54	146.66
PROJECT ELEVATION					145.59	145.64	145.84	145.88	145.90	145.86	145.84	145.76	145.76	145.75							
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+940.00



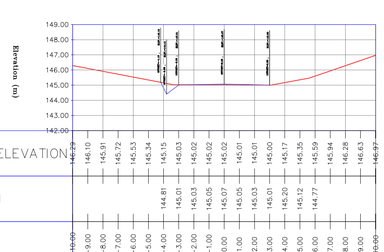
NATURAL GROUND ELEVATION	146.63	146.55	146.46	146.31	146.18	146.09	145.99	145.90	145.83	145.80	145.72	145.69	145.65	145.76	145.90	146.23	146.41	146.58	146.74		
PROJECT ELEVATION					145.71	145.54	145.74	145.76	145.78	145.78	145.76	145.74	145.65	145.64	145.62						
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+950.00



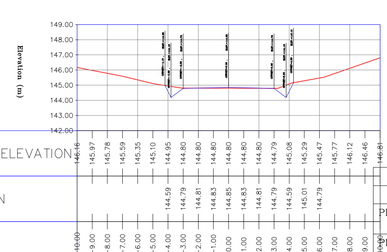
NATURAL GROUND ELEVATION	146.50	146.33	146.17	146.00	145.93	145.81	145.62	145.43	145.37	145.34	145.31	145.31	145.30	145.29	145.42	145.68	146.03	146.37	146.72	147.06	147.40
PROJECT ELEVATION							145.14	145.34	145.36	145.38	145.40	145.38	145.36	145.34	145.41	145.40	145.19				
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+956.99



NATURAL GROUND ELEVATION	146.29	146.10	145.91	145.72	145.53	145.34	145.15	145.03	145.02	145.02	145.01	145.01	145.00	145.17	145.35	145.59	145.84	146.28	146.83	147.37	
PROJECT ELEVATION							144.81	145.01	145.03	145.05	145.07	145.05	145.03	145.01	145.20	145.12	144.77				
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

1+960.00



NATURAL GROUND ELEVATION	146.16	145.97	145.78	145.59	145.35	145.10	144.95	144.80	144.80	144.80	144.80	144.80	144.85	144.80	144.79	145.08	145.29	145.47	145.77	146.12	146.46	146.81
PROJECT ELEVATION							144.59	144.79	144.81	144.83	144.83	144.81	144.83	144.79	144.79	144.59	145.01	145.14	144.79			
DIST. (m)	10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00

NOTES

1-ALL COORDINATES AND ELEVATIONS ARE IN METER.
2-ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3-GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4-THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5-BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

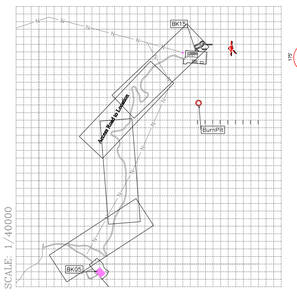
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
PC= POINT OF CURVATURE
PVI= POINT OF VRTICAL INTERSECTION
LVC= LENGTH OF VERTICAL CURVE
BVCS= BEGIN OF VERTICAL CURVE STATION
BVCE= BEGIN OF VERTICAL CURVE ELEVATION
EVCS= END OF VERTICAL CURVE STATION
EVCE= END OF VERTICAL CURVE ELEVATION

KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR:
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	42 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

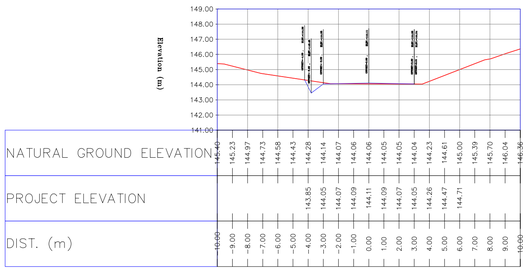
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

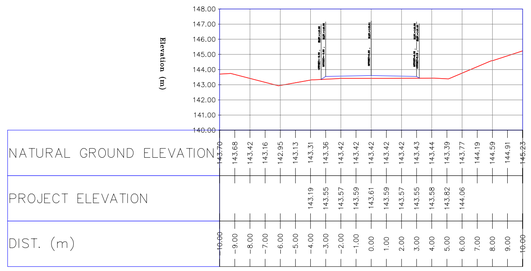
APPROVED FOR CONSTRUCTION | BY: | DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	42	D00

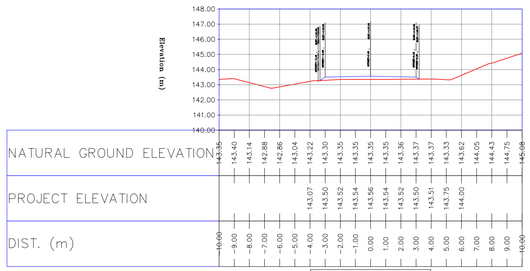
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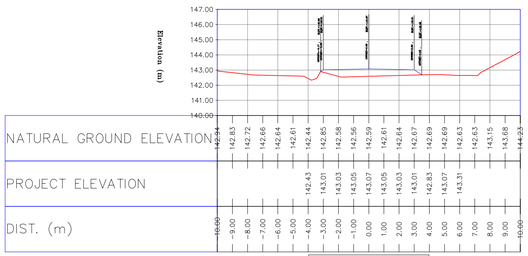
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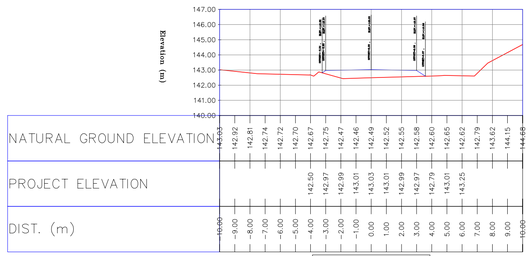
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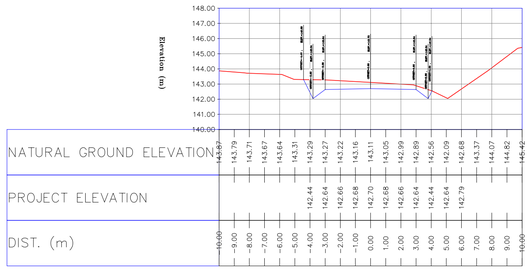
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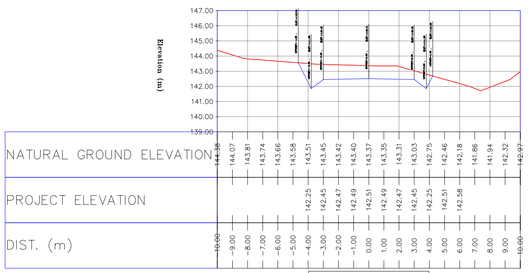
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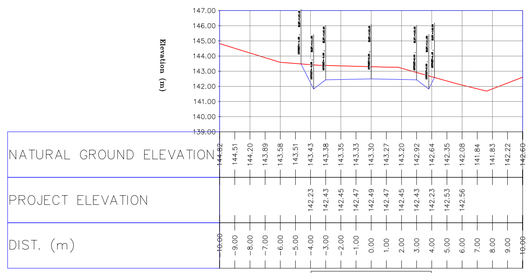
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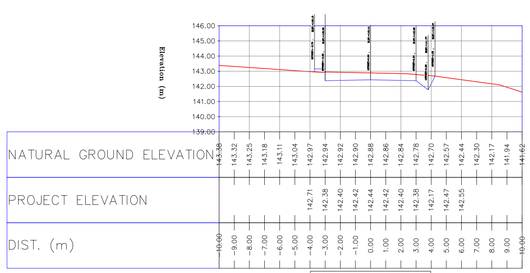
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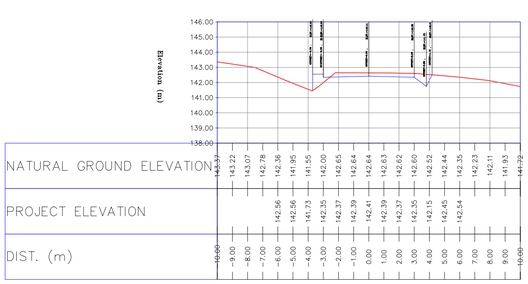
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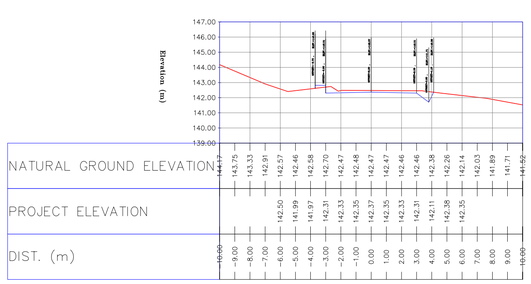
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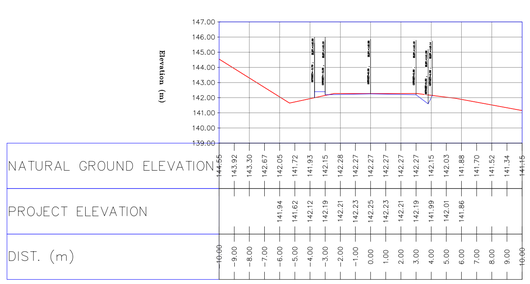
2+026.27



2+030.00



2+035.82



NOTES

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ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
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VERTICAL DATUM:	MSL

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8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

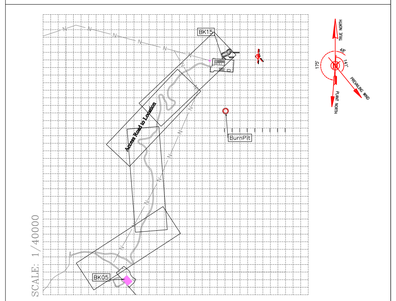
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
Specification For Road & Paving	BK-GNRAL-PEDCO-000-CV-SP-0002
MTO For Civil Works - BK15	BK-BK15-PEDCO-110-CV-MT-0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK-GNRAL-PEDCO-000-CV-DW-0014
Over Head Line Plan and Profile-BK15	BK-BK15-PEDCO-110-SU-DW-0001

ABBREVIATION

PT= POINT OF TANGENT
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KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	43 OF 49	D00

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

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
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

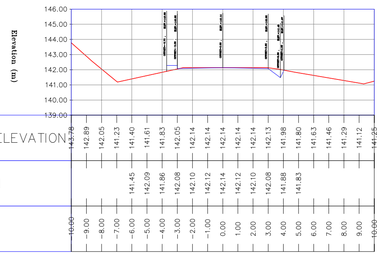
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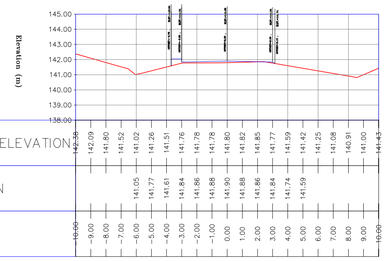
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BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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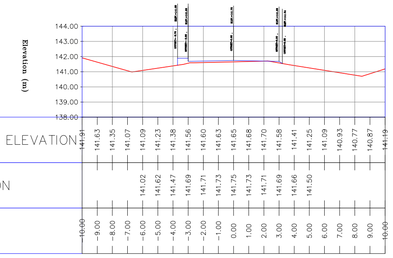
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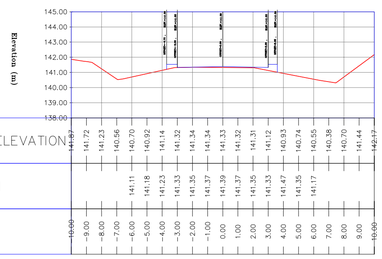
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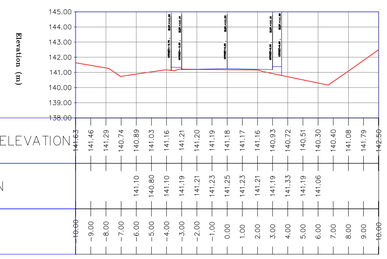
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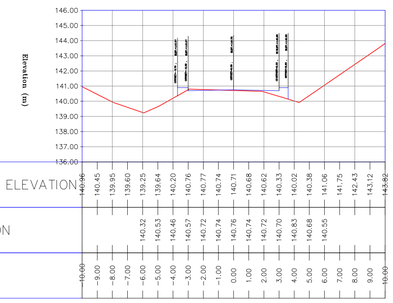
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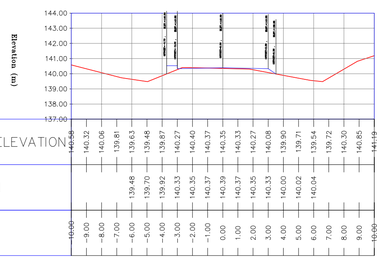
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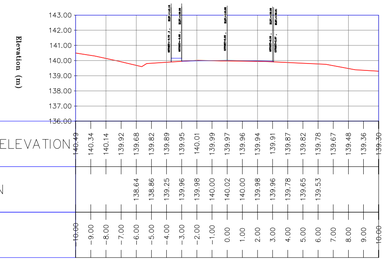
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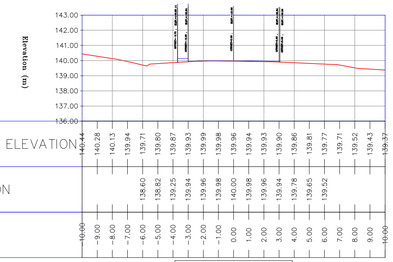
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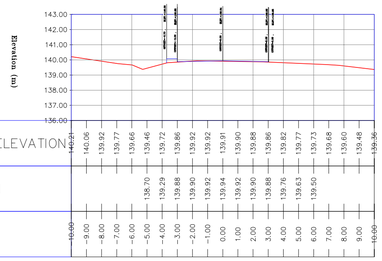
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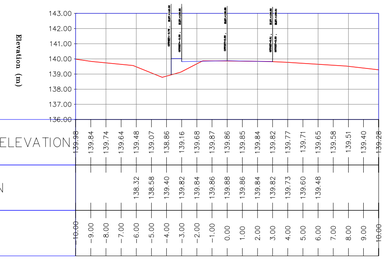
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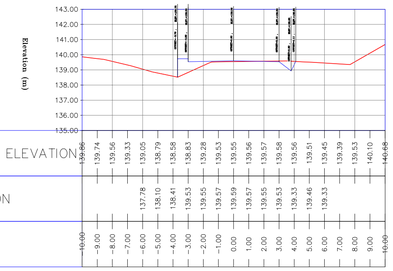
2+091.83



2+093.24



2+100.00



NOTES

1-ALL COORDINATES AND ELEVATIONS ARE IN METER.
2-ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3-GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:

HORIZONTAL COORDINATE SYSTEM:	WGS84/UTM ZONE 39
ELLIPSOID :	WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION:	UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM:	MSL

4-THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
- PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
- "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
- PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK-GNRAL-PEDCO-000-CV-SP-0004".
- GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.

5-BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6-RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7-PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK-SSGRL-PEDCO-110-PI-DW-0001
8-THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

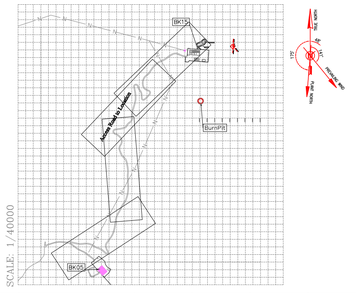
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout -BK15	BK-BK15-PEDCO-110-CV-PY-0001
Rough Grading Plan-BK15	BK-BK15-PEDCO-110-CV-PY-0003
Specification For Earth Work	BK-GNRAL-PEDCO-000-CV-SP-0004
Standard Drawing For Slope Protection Details	BK-GNRAL-PEDCO-000-CV-DW-0002
Geotechnical Investigation Report - BK15	BK-BK15-PEDCO-110-GT-RT-0001
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ABBREVIATION

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KEY PLAN



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

D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS - BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	44 OF 49	D00

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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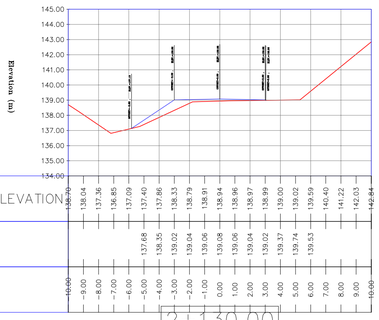
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

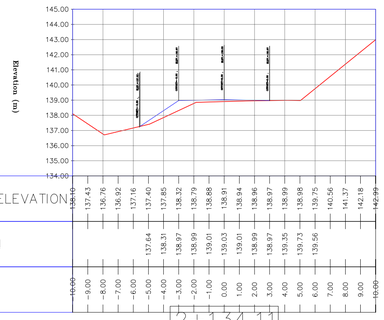
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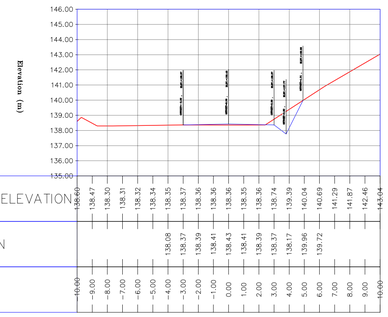
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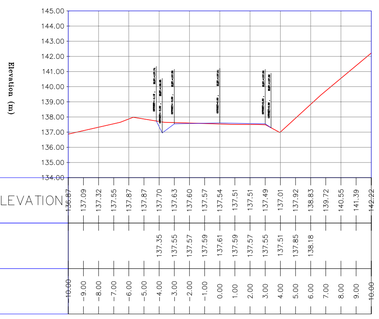
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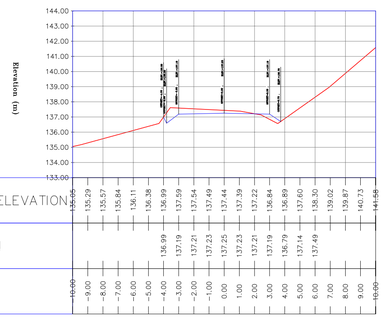
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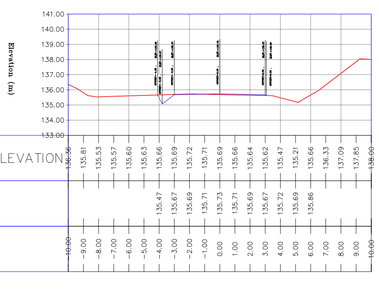
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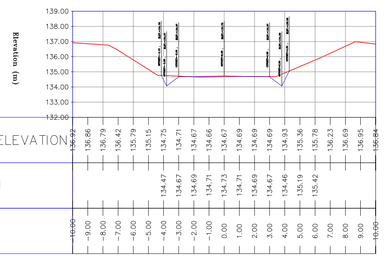
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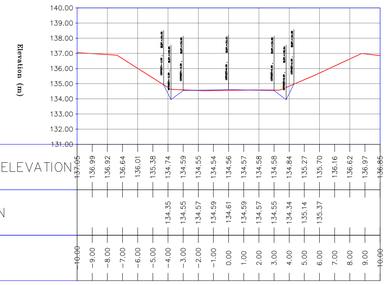
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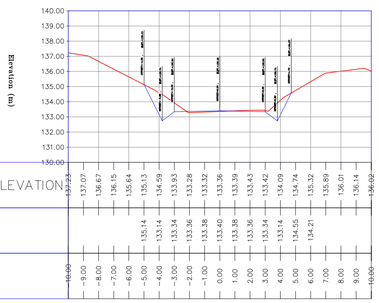
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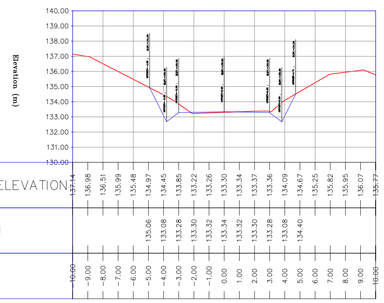
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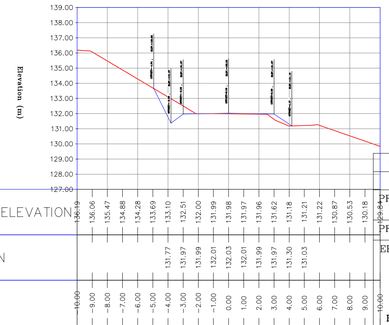
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2+170.00



2+180.00



NOTES

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LEGEND

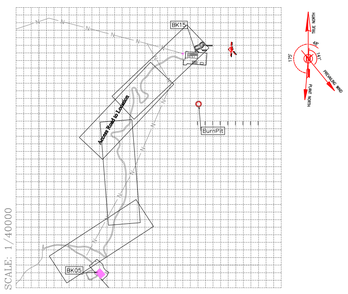
⊙	WELL LOCATION		OIL LINE
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99.27	TOPOGRAPHY POINTS		CHANNEL
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	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
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REFERENCE DRAWING	DRG. No.
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KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK-BK15-PEDCO-110-CV-DW-0001	45 OF 49	D00

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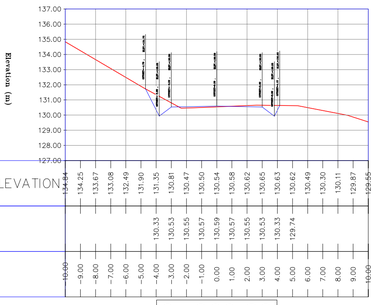
BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

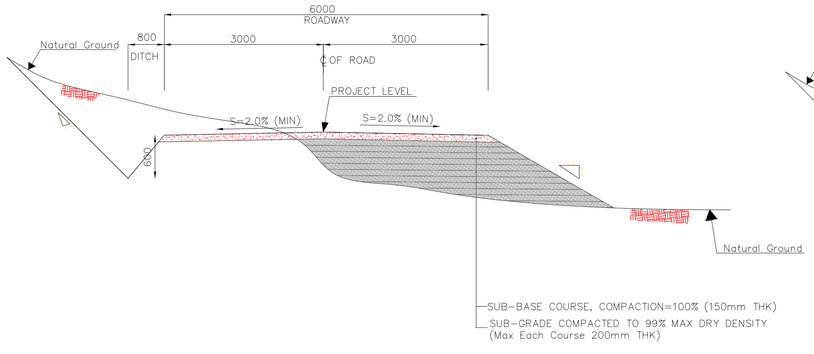
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BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	4	S	708377	45	D00

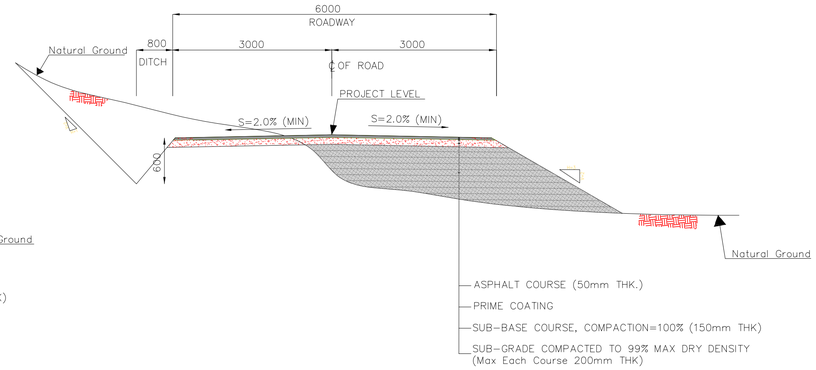
2+188.19


Elevation (m)
137.00
136.00
135.00
134.00
133.00
132.00
131.00
130.00
129.00
128.00
127.00

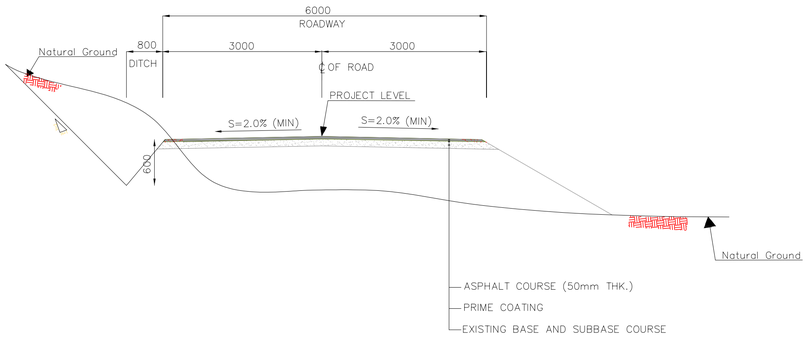
| | | |



N.T.S. 1 TYPICAL CROSS SECTIONS (Access Road)–Regular Area



N.T.S. 2 TYPICAL CROSS SECTIONS (Access Road)–Asphalt Area (Refer to Table1)



N.T.S. 3 TYPICAL CROSS SECTIONS (Access Road)–Asphalt Overlay Area (Refer to Table1)

TABLE 1–ASPHALT AREA SPECIFICATION

NAME	KM START	KM END	LENGTH(m)	DESCRIPTION
AREA1	0+150.00	0+500.00	350	ASPHALT AREA (TYP #2)
AREA2	0+500.00	0+750.00	250	ASPHALT OVERLAY AREA (TYP #3)
AREA3	1+100.00	1+275.00	175	ASPHALT OVERLAY AREA (TYP #3)
AREA4	1+490.00	2+000.00	510	ASPHALT OVERLAY AREA (TYP #3)
AREA5	2+000.00	2+215.00	215	ASPHALT AREA (TYP #2)
	TOTAL		1500	

LIST OF NEW CULVERT

NUMBER	COORDINATE	TYPE OF CULVERT
1	E=441875 N=3287480	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
2	E=441802 N=3287413	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
3	E=441837 N=3286933	CONCRETE PIPE CULVERT (DIAMETER 80 cm)
4	E=441591 N=3286672	CONCRETE PIPE CULVERT (DIAMETER 80 cm)

IMPORTANT NOTE: THE EXACT LOCATION OF NEW CULVERT, RETAINING WALL AND ASPHALT AREA SHALL BE ADJUSTED AT SITE.

NOTES

1–ALL COORDINATES AND ELEVATIONS ARE IN METER.
2–ALL DRAWINGS SHALL BE CHECKED BY CONTRACTOR WITH RELATIVE DRAWINGS BEFORE CONSTRUCTION.
3–GEODETIC PARAMETERS FOR COORDINATES ARE AS BELOW:
HORIZONTAL COORDINATE SYSTEM: WGS84/UTM ZONE 39
ELLIPSOID : WORLD GEODETIC SYSTEM 1984 (WGS84)
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM)
VERTICAL DATUM: MSL
4–THE SUITABLE MATERIAL FOR FILLING SHALL BE COLLECTED BASED ON TO THE BELOW RULES:
– PROJECT GEOTECHNICAL INVESTIGATION REPORT, BORROW MATERIALS AND SPECIFICATION STUDY PART.
– "GENERAL SPECIFICATION FOR ROAD" NO. 101, SECTION 207, IRAN PLANNING AND BUDGET ORGANIZATION.
– PROJECT GENERAL SPECIFICATION "SPECIFICATION FOR EARTH WORK" DOCUMENT NUMBER "BK–GNRAL–PEDCO–000–CV–SP–0004".
– GEOTECHNICAL REPORTS AND CLIENT'S SITE SUPERVISORY BODY RECOMMENDATIONS AND APPROVALS.
5–BEFORE ANY EARTH WORK ACTIVITIES (CUT OR FILL), TOP AND UNSUITABLE SOIL (MARN,...) SHALL BE REMOVED AS GEOTECHNICAL RECOMMENDATION AND SUPERVISOR'S REQUIREMENTS.
6–RETAINING WALL SHALL BE BASED ON THE CODE NO.292 AND PROJECT REFERENCES.
7–PIPE SUPPORT NUMBERS AND SPACING SHALL BE BASED ON: BK–SSGRL–PEDCO–110–PI–DW–0001
8–THE EXACT LOCATION OF NEW CULVERT AND RETAINING WALL SHALL BE ADJUSTED AT SITE.

LEGEND

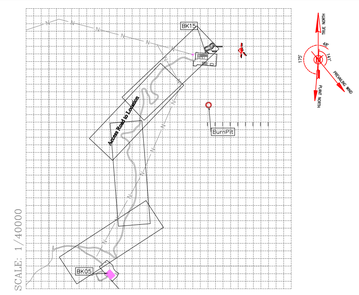
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE / AT PLAN	EXISTING CULVERT
N N	POWER LINE	AT PROFILE / AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE / AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 / 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
General Civil Layout –BK15	BK–BK15–PEDCO–110–CV–PY–0001
Rough Grading Plan–BK15	BK–BK15–PEDCO–110–CV–PY–0003
Specification For Earth Work	BK–GNRAL–PEDCO–000–CV–SP–0004
Standard Drawing For Slope Protection Details	BK–GNRAL–PEDCO–000–CV–DW–0002
Geotechnical Investigation Report – BK15	BK–BK15–PEDCO–110–GT–RT–0001
Specification For Road & Paving	BK–GNRAL–PEDCO–000–CV–SP–0002
MTO For Civil Works – BK15	BK–BK15–PEDCO–110–CV–MT–0001
STANDARD DRAWING FOR CULVERT & DETAILS	BK–GNRAL–PEDCO–000–CV–DW–0014
Over Head Line Plan and Profile–BK15	BK–BK15–PEDCO–110–SU–DW–0001

ABBREVIATION

PT= POINT OF TANGENT
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KEY PLAN



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

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DOO	JUN.2023	IFC	R.BERLOUEI	M.FAKHARIAN	A.M.MOHSENI	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

BINAK OILFIELD DEVELOPMENT
SUB-SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

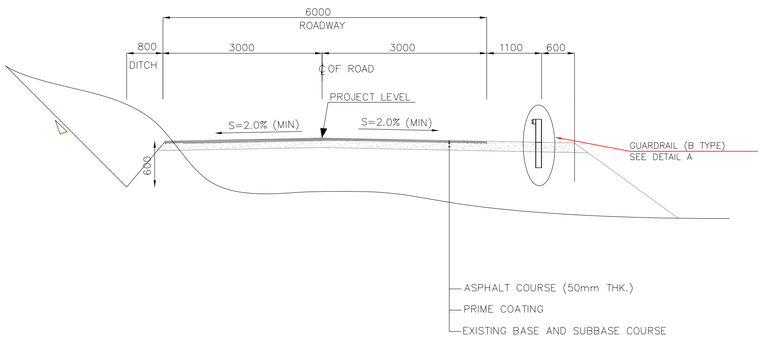
DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15
CROSS SECTIONS

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

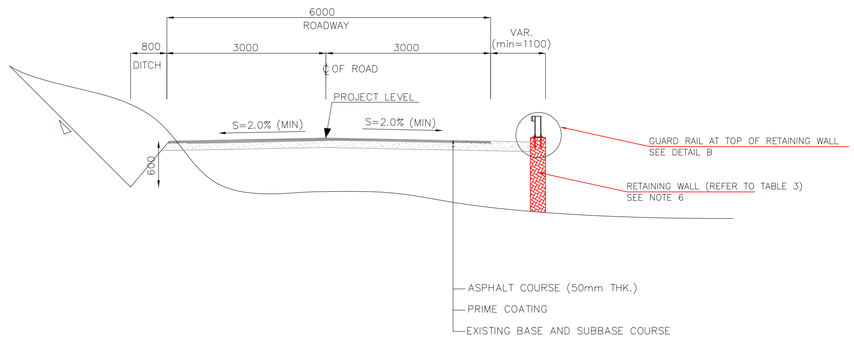
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION | BY: | DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK15–PEDCO–110–CV–DW–0001	47 OF 49	D00

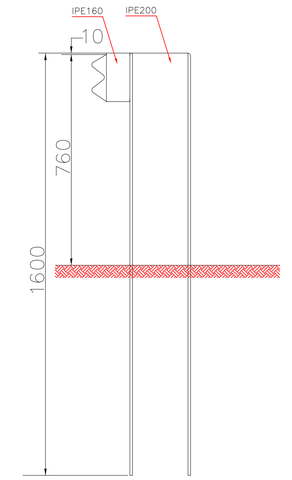
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053–073–9184	F	4	S	708377	47	D00



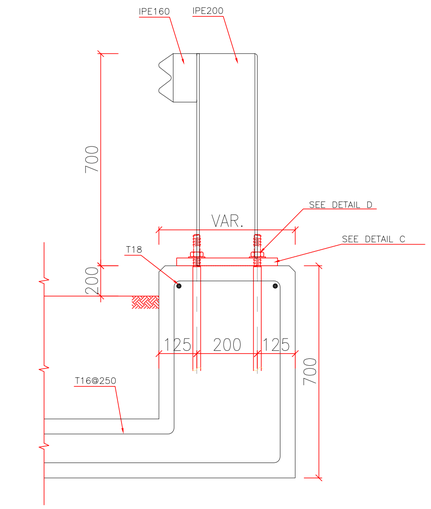
N.T.S. 4 TYPICAL CROSS SECTIONS (Access Road)–Asphalt Overlay Area with Guardrail (Refer to Table2 and PlanProfile)



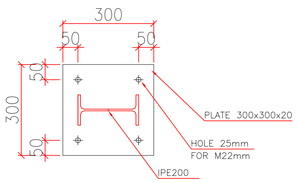
N.T.S. 4 TYPICAL CROSS SECTIONS (Access Road)–Asphalt Overlay Area with Guardrail and Retaining Wall(Refer to Table2 and PlanProfile)



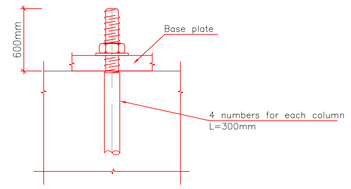
N.T.S. A B Type Guardrail Detail



N.T.S. B B Type Guardrail at Top of Retaining Wall Detail



N.T.S. C Plate Detail



N.T.S. D Bolt Detail

TABLE 2–GUARDRAIL AREA SPECIFICATION

NAME	KM START	COORDINATE	KM END	COORDINATE	LENGTH(m)	SIDE
AREA1	1+340.00	E=441982 N=3287746	1+840	LENGTH=500m	500	RIGHT
AREA2	1+880.00	E=441997 N=3287789	1+918.00	E=442015 N=3287803	38	RIGHT
TOTAL					538	

IMPORTANT NOTE: THE EXACT LOCATION OF NEW CULVERT, RETAINING WALL AND ASPHALT AREA SHALL BE ADJUSTED AT SITE.

TABLE 3–RETAINING WALL AREA

NAME	START	END	WIDTH(Cm)	ELEVATION
1	E=44231 N=3287913	LENGTH=10m	80	TO TOP OF ROAD
2	E=442158 N=3287922	E=442087 N=3287877	70	TO TOP OF ROAD
3	E=442135 N=3287900	LENGTH=20m	60	TO TOP OF ROAD
4	E=442075 N=3287873	LENGTH=5m	60	TO TOP OF ROAD
5	E=441987 N=3287780	E=441982 N=3287746	40	TO TOP OF ROAD
6	E=441972 N=3287686	E=441980 N=3287640	40	TO TOP OF ROAD
7	E=441972 N=3287687			
8	E=441887 N=3287488	E=441861 N=3287463	40	TO TOP OF ROAD
9	E=441789 N=3287435	E=441802 N=3287413	40	TO TOP OF ROAD
10	E=441829 N=3287340			
11	E=441877 N=3287003	E=441870 N=328691	80	TO TOP OF ROAD
12	E=441837 N=3286933		40	TO TOP OF ROAD
13	E=441756 N=3286708			
14	E=441591 N=3286672	E=441511 N=3286680	40	TO TOP OF ROAD
15	E=441591 N=3286673	E=441511 N=3286681	41	TO TOP OF ROAD
16	E=441494 N=3286393	E=441513 N=3286690	40	TO TOP OF ROAD

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LEGEND

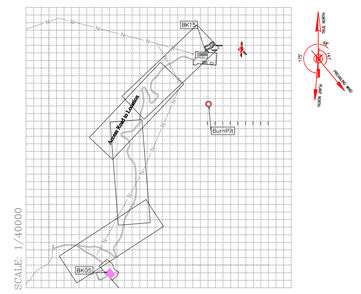
⊙	WELL LOCATION		OIL LINE
⊠	POWER TOWER POWER POLE		BURN PIT LINE
△	BENCH MARK		NEW BURN PIT LINE
99.27	TOPOGRAPHY POINTS		CHANNEL
	ASPHALT ROAD		RIVER
	GRAVEL ROAD		RETAINING WALL
	PROPOSED ROAD		SITE (WELL)
	DAYLIGHT		CAMP SITE
	EXISTING ROAD	AT PROFILE AT PLAN	EXISTING CULVERT
	POWER LINE	AT PROFILE AT PLAN	NEW CULVERT
	OPTICAL FIBER	AT PROFILE AT PLAN	EXISTING CULVERT (SHALL BE DEMOLISHED)
60 50	CONTOURS		EXISTING AREA
	WATER COURSE		

REFERENCE DRAWING	DRG. No.
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KEY PLAN



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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D00	JUN.2023	IFC	R.BERLOUEI	M.PAKHARIAN	A.M.MOHSENI	** **

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB–SURFACE WORK PACKAGES BK05 WHF MODIFICATIONS
PROJECT NO.: 971020

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

DRAWING TITLE: CIVIL AND STRUCTURAL DRAWINGS – BK15 CROSS SECTIONS

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
H=1/1000 V=1/100	A1	BK–BK15–PEDCO–110–CV–DW–0001	48 OF 49	D00

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BINAK OILFIELD DEVELOPMENT
SUB–SURFACE WORK PACKAGES
BK05 WHF MODIFICATIONS

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
053–073–9184	F	4	S	708377	48	D00

EARTH WORK MATERIAL TAKE OFF-ACCESS ROAD BK15

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+000.00	0.00	0.74	0.00	0.00	0.00	0.00
0+010.00	0.00	1.97	0.00	13.54	0.00	13.54
0+020.00	0.00	6.52	0.00	42.47	0.00	56.01
0+030.00	0.00	7.51	0.00	70.17	0.00	126.18
0+040.00	0.00	5.27	0.00	63.89	0.00	190.07
0+042.32	0.00	4.67	0.00	11.54	0.00	201.61
0+050.00	0.01	1.49	0.06	24.31	0.06	225.92
0+060.00	0.38	0.01	1.90	7.69	1.96	233.60
0+063.62	0.34	0.23	1.27	0.43	3.23	234.04
0+070.00	0.44	0.00	2.49	0.73	5.73	234.77
0+080.00	0.01	0.51	2.25	2.60	7.98	237.37
0+084.91	0.31	0.00	0.79	1.27	8.77	238.65
0+090.00	0.16	0.00	1.20	0.01	9.96	238.65
0+099.12	0.02	0.59	0.82	2.69	10.78	241.34
0+100.00	0.01	0.63	0.01	0.53	10.79	241.87
0+110.00	0.02	0.00	0.16	3.01	10.95	244.88
0+120.00	0.00	1.27	0.09	6.36	11.04	251.24
0+129.86	0.00	1.98	0.00	16.02	11.04	267.26
0+130.00	0.00	1.99	0.00	0.28	11.04	267.54
0+140.00	0.00	1.84	0.00	19.14	11.04	286.68
0+150.00	4.33	0.00	21.73	9.22	32.77	295.90
0+160.00	4.67	0.00	45.55	0.00	78.31	295.90
0+160.60	4.65	0.00	2.80	0.00	81.11	295.90
0+168.44	2.69	0.00	28.78	0.00	109.89	295.90
0+170.00	2.62	0.00	4.09	0.00	113.98	295.90
0+175.15	2.80	0.00	13.86	0.00	127.85	295.90
0+180.00	2.97	0.00	13.90	0.00	141.75	295.90
0+181.86	3.25	0.00	5.75	0.00	147.50	295.90
0+190.00	3.68	0.00	28.17	0.00	175.67	295.90
0+200.00	2.56	0.00	31.16	0.00	206.82	295.90
0+200.65	2.47	0.00	1.63	0.00	208.46	295.90
0+210.00	2.19	2.80	21.87	12.42	230.32	308.32
0+213.28	2.36	2.21	7.51	7.80	237.84	316.12
0+220.00	2.50	1.68	16.39	12.37	254.23	328.49
0+225.92	2.59	1.20	15.12	8.08	269.34	336.57
0+230.00	2.52	0.78	10.44	4.05	279.78	340.62
0+240.00	2.96	0.00	27.42	3.91	307.20	344.52
0+250.00	3.44	0.00	32.00	0.00	339.21	344.52
0+254.67	3.46	1.30	16.10	3.04	355.31	347.56
0+260.00	2.11	0.00	13.96	−2.25	369.26	345.31
0+266.38	0.11	0.65	6.88	2.87	376.14	348.18
0+270.00	0.00	3.43	0.15	8.08	376.10	356.26
0+278.08	0.77	5.54	−2.13	36.79	373.97	393.04
0+280.00	0.28	5.22	1.00	10.30	374.97	403.35
0+290.00	0.00	1.89	1.38	35.52	376.35	438.87
0+290.60	0.00	1.61	0.00	1.05	376.35	439.92
0+297.05	0.63	0.00	2.01	5.18	378.35	445.09
0+300.00	1.10	0.00	2.54	0.00	380.90	445.09
0+303.50	1.74	0.00	4.97	0.00	385.87	445.09
0+310.00	2.65	0.00	14.28	0.00	400.15	445.09
0+312.87	3.05	0.00	8.20	0.00	408.35	445.09
0+320.00	3.59	0.00	23.26	0.00	431.60	445.09
0+324.28	3.64	0.00	15.20	0.00	446.80	445.09
0+330.00	4.54	0.00	22.91	0.00	469.71	445.09
0+335.68	4.41	0.00	24.71	0.00	494.42	445.09
0+340.00	2.33	0.00	14.57	0.00	508.99	445.09
0+350.00	0.18	0.35	12.54	1.76	521.53	446.86
0+360.00	1.47	1.38	8.21	8.65	529.73	455.51
0+370.00	0.01	1.66	7.36	15.21	537.09	470.72
0+380.00	0.00	2.91	0.03	22.88	537.12	493.60
0+384.50	0.00	3.14	0.00	13.63	537.12	507.23
0+390.00	0.00	3.09	0.00	17.06	537.12	524.29
0+400.00	0.00	2.90	0.00	29.85	537.12	554.14
0+403.32	0.01	2.53	0.01	8.96	537.13	563.10
0+410.00	0.00	2.04	0.04	15.18	537.17	578.28
0+420.00	0.00	1.93	0.01	19.83	537.19	598.11
0+422.13	0.00	1.91	0.00	4.10	537.19	602.20
0+427.27	0.00	2.58	0.00	11.51	537.19	613.71
0+430.00	0.00	2.89	0.00	7.49	537.19	621.20
0+440.00	0.00	2.27	0.00	25.73	537.19	646.92
0+440.40	0.00	2.30	0.00	0.91	537.19	647.83
0+450.00	0.00	3.85	0.00	29.46	537.19	677.29
0+453.53	0.00	3.57	0.00	13.11	537.19	690.40
0+460.00	0.00	3.21	0.00	21.94	537.19	712.34
0+470.00	0.00	1.61	0.00	24.13	537.19	736.47
0+480.00	0.13	0.23	0.63	9.20	537.81	745.67
0+490.00	2.06	0.00	10.94	1.13	548.75	746.80
0+500.00	0.78	0.00	14.22	0.00	562.97	746.80
0+510.00	0.79	0.00	7.88	0.00	570.86	746.80
0+510.39	0.67	0.00	0.28	0.00	571.14	746.80
0+520.00	0.27	0.00	4.55	0.00	575.70	746.80
0+530.00	0.00	0.82	1.38	4.15	577.08	750.95
0+531.45	0.02	0.64	0.01	1.06	577.09	752.01
0+540.00	0.38	0.73	1.64	5.96	578.73	757.98
0+550.00	1.99	0.27	11.34	5.06	590.07	763.04
0+552.51	2.23	0.36	5.06	0.81	595.14	763.85
0+560.00	2.42	0.46	17.41	3.06	612.54	766.91
0+567.14	2.48	0.00	17.50	1.63	630.04	768.54
0+570.00	2.34	0.00	7.08	0.00	637.12	768.54
0+579.34	1.07	1.33	16.31	6.05	653.43	774.59
0+580.00	0.94	1.58	0.66	0.96	654.10	775.55
0+590.00	1.22	3.28	11.07	23.67	665.17	799.22
0+591.54	1.79	3.81	2.31	5.46	667.48	804.68
0+599.29	5.51	4.83	28.28	33.50	695.76	838.17
0+600.00	5.83	4.68	4.02	3.37	699.78	841.55
0+610.00	6.40	3.20	57.21	41.23	756.98	882.77
0+613.17	6.18	2.96	18.62	10.20	775.61	892.97
0+620.00	5.59	2.59	37.66	19.79	813.27	912.76
0+627.05	3.34	2.08	29.68	17.18	842.94	929.94
0+630.00	1.87	2.30	7.69	6.46	850.63	936.41

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+634.73	0.74	2.00	6.18	10.18	856.81	946.58
0+640.00	0.18	0.82	2.56	6.83	859.37	953.42
0+642.61	0.10	0.59	0.37	1.69	859.74	955.11
0+650.00	0.08	0.49	0.64	3.92	860.38	959.03
0+650.48	0.02	0.50	0.02	0.24	860.40	959.26
0+660.00	0.29	0.27	1.46	3.66	861.86	962.92
0+662.28	0.45	0.00	0.84	0.30	862.70	963.23
0+670.00	0.36	0.00	3.09	0.00	865.79	963.23
0+680.00	0.89	1.46	6.15	7.46	871.95	970.69
0+690.00	0.91	3.35	8.81	24.54	880.75	995.23
0+699.26	0.00	1.50	4.11	22.90	884.87	1018.13
0+700.00	0.02	1.38	0.01	1.06	884.87	1019.19
0+710.00	0.05	1.19	0.32	12.88	885.19	1032.06
0+720.00	0.00	1.21	0.24	11.79	885.43	1043.85
0+730.00	0.01	0.40	0.03	7.91	885.45	1051.77
0+736.25	0.04	1.30	0.14	5.32	885.60	1057.09
0+740.00	0.00	1.91	0.08	6.01	885.67	1063.10
0+741.33	0.00	2.18	0.00	2.72	885.67	1065.81
0+750.00	1.61	0.00	6.90	9.54	892.57	1075.36
0+759.43	3.01	1.14	21.51	5.45	914.08	1080.81
0+760.00	1.98	1.31	1.41	0.69	915.49	1081.50
0+770.00	0.01	3.71	9.79	25.34	925.28	1106.84
0+777.54	0.00	4.11	0.02	29.79	925.30	1136.63
0+780.00	0.00	4.39	0.00	10.46	925.30	1147.09
0+789.82	0.00	4.58	0.00	44.03	925.30	1191.12
0+790.00	0.00	4.52	0.00	0.84	925.30	1191.96
0+800.00	0.00	1.90	0.00	31.77	925.30	1223.73
0+806.39	0.00	1.22	0.00	9.93	925.30	1233.65
0+810.00	0.00	1.01	0.00	4.02	925.30	1237.68
0+820.00	0.00	0.88	0.00	9.46	925.30	1247.13
0+822.96	0.00	1.10	0.00	2.93	925.30	1250.07
0+830.00	0.00	1.08	0.00	7.70	925.30	1257.76
0+834.39	0.00	1.30	0.00	5.24	925.30	1263.00
0+840.00	0.00	1.30	0.00	7.29	925.30	1270.29
0+850.00	0.00	1.76	0.00	15.15	925.30	1285.44
0+856.21	0.00	2.67	0.00	13.68	925.31	1299.12
0+860.00	0.00	1.84	0.00	8.52	925.31	1307.64
0+870.00	0.00	2.99	0.00	24.05	925.31	1331.69
0+878.04	0.00	4.20	0.00	28.89	925.31	1360.57
0+880.00	0.00	3.88	0.00	7.93	925.31	1368.50
0+890.00	0.00	3.96	0.00	38.20	925.31	1406.71
0+900.00	0.00	2.13	0.00	29.45	925.31	1436.16
0+908.74	0.00	2.66	0.00	20.92	925.31	1457.07
0+910.00	0.00	2.74	0.00	3.49	925.31	1460.56
0+920.00	0.00	3.04	0.00	30.02	925.31	1490.59
0+924.88	0.04	2.62	0.08	14.65	925.39	1505.23
0+930.00	0.01	2.72	0.11	14.65	925.50	1519.88
0+940.00	0.00	2.14	0.05	25.84	925.55	1545.72
0+941.02	0.00	1.87	0.00	2.14	925.55	1547.86
0+950.00	0.04	1.08	0.20	13.25	925.75	1561.10
0+952.21	0.00	1.23	0.05	2.56	925.79	1563.66
0+960.00	0.00	2.00	0.00	12.58	925.79	1576.24
0+964.02	0.00	2.18	0.00	8.41	925.79	1584.66
0+970.00	0.00	2.07	0.00	12.67	925.79	1597.32
0+975.84	0.00	1.76	0.00	11.16	925.79	1608.49
0+980.00	0.00	1.35	0.00	6.47	925.79	1614.96
0+990.00	0.00	1.62	0.00	14.86	925.79	1629.81
0+999.47	0.00	1.70	0.00	15.75	925.79	1645.57
1+000.00	0.00	1.82	0.00	0.93	925.79	1646.49
1+010.00	0.00	2.65	0.00	22.53	925.79	1669.02
1+016.08	0.00	2.06	0.00	14.45	925.79	1683.47
1+020.00	0.00	2.69	0.00	9.48	925.79	1692.96
1+030.00	0.00	2.11	0.00	24.26	925.79	1717.21
1+032.69	0.00	2.46	0.00	6.20	925.79	1723.41
1+040.00	0.09	1.72	0.33	15.24	926.12	1738.65
1+042.99	0.00	2.08	0.13	5.67	926.26	1744.33
1+050.00	0.00	1.47	0.00	12.21	926.26	1756.54
1+060.00	0.00	0.49	0.01	9.54	926.27	1766.08
1+069.74	0.11	0.97	0.48	7.41	926.75	1773.50
1+070.00	0.13	0.90	0.03	0.24	926.78	1773.74
1+080.00	0.00	1.12	0.58	10.52	927.36	1784.26
1+090.00	0.07	0.02	0.34	5.88	927.70	1790.13
1+096.49	0.00	1.75	0.22	6.11	927.92	1796.24
1+100.00	0.00	1.71	0.00	6.07	927.92	1802.31
1+110.00	0.04	2.52	0.22	21.13	928.14	1823.44
1+113.76	0.11	2.90	0.29	10.19	928.43	1833.63
1+116.06	0.42	0.60	0.47	5.05	928.90	1838.68
1+118.35	0.81	0.58	1.11	1.67	930.01	1840.35
1+120.00	1.10	0.48	1.58	0.87	931.58	1841.22
1+130.00	1.23	0.03	11.64	2.53	943.23	1843.76
1+138.57	0.06	0.01	5.50	0.20	948.73	1843.95
1+140.00	0.01	0.00	0.04	0.01	948.77	1843.96
1+150.00	0.25	0.95	1.14	5.84	949.91	1849.81
1+157.31	0.15	0.91	1.27	8.32	951.18	1858.13
1+160.00	0.24	0.94	0.45	3.05	951.63	1861.17
1+170.00	0.24	0.52	2.08	8.93	953.72	1870.11
1+176.05	0.18	0.40	1.12	3.43	954.83	1873.53
1+180.00	0.02	1.74	0.39	4.24	955.23	1877.77
1+190.00	0.07	1.04	0.44	13.90	955.67	1891.67
1+200.00	0.33	0.15	2.00	5.92	957.66	1897.59
1+210.00	0.10	0.01	2.13	0.81	959.79	1898.40
1+210.67	0.09	0.23	0.06	0.08	959.86	1898.48
1+220.00	0.26	0.35	1.67	2.61	961.53	1901.09
1+225.62	0.15	0.00	1.19	0.96	962.72	1902.05
1+230.00	0.02	0.99	0.39	2.23	963.11	1904.28
1+240.00	0.00	4.04	0.10	25.54	963.22	1929.82
1+240.57	0.00	3.78	0.00	2.22	963.22	1932.05
1+243.58	0.00	1.87	0.00	8.49	963.22	1940.54
1+248.03	0.26	0.56	0.48	6.31	963.70	1946.85
1+250.00	0.41	0.45	0.55	1.24	964.25	1948.09

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
1+252.48	0.50	0.35	0.96	1.25	965.21	1949.34
1+260.00	0.13	0.01	2.37	1.34	967.58	1950.68
1+267.77	0.47	1.16	2.35	4.55	969.92	1955.23
1+270.00	1.20	1.44	1.71	3.18	971.63	1958.41
1+276.18	3.29	0.91	12.34	7.95	983.97	1966.36
1+280.00	3.17	0.98	10.87	3.94	994.84	1970.30
1+284.58	1.46	1.05	9.29	5.09	1004.13	1975.39
1+290.00	0.00	1.19	3.96	6.09	1008.09	1981.48
1+292.72	0.00	0.91	0.00	2.86	1008.09	1984.34
1+300.00	0.00	0.47	0.00	4.77	1008.09	1989.11
1+307.04	0.00	0.59	0.00	3.80	1008.09	1992.91
1+310.00	0.00	0.90	0.00	2.33	1008.10	1995.24
1+320.00	0.03	0.53	0.18	6.93	1008.28	2002.17
1+321.36	0.02	0.53	0.04	0.65	1008.32	2002.81
1+330.00	0.02	0.74	0.18	5.51	1008.50	2008.33
1+333.04	0.01	0.88	0.05	2.47	1008.55	2010.80
1+340.00	0.54	1.10	1.87	7.07	1010.42	2017.87
1+350.00	2.88	0.63	16.29	8.90	1026.72	2026.77
1+350.60	2.54	0.63	1.63	0.38	1028.34	2027.15
1+360.00	0.56	0.94	13.84	7.62	1042.18	2034.77
1+368.16	0.02	1.47	2.23	10.14	1044.41	2044.91
1+370.00	0.00	1.81	0.01	3.01	1044.43	2047.93
1+380.00	0.00	2.03	0.00	19.19	1044.43	2067.12
1+390.00	0.00	1.97	0.00	19.98	1044.43	2087.09
1+400.00	0.07	0.87	0.33	14.17	1044.76	2101.27
1+410.00	0.18	0.70	1.22	7.82	1045.98	2109.09
1+420.00	0.48	0.61	3.31	6.52	1049.29	2115.61
1+430.00	0.16	0.71	3.24	6.57	1052.53	2122.18
1+430.16	0.15	0.71	0.03	0.11	1052.56	2122.30
1+440.00	0.26	0.61	2.12	6.33	1054.67	2128.63
1+449.20	0.07	0.48	1.55	4.85	1056.22	2133.48
1+450.00	0.07	0.47	0.05	0.38	1056.28	2133.85
1+460.00	0.05	0.48	0.61	4.62	1056.89	2138.47
1+468.24	0.47	0.13	2.21	2.48	1059.10	2140.96
1+470.00	0.62	0.13	0.95	0.23	1060.05	2141.19
1+480.00	0.17	0.11	3.95	1.24	1064.00	2142.43
1+490.00	0.10	0.07	1.38	0.94	1065.38	2143.38
1+494.34	0.11	0.42	0.47	1.08	1065.85	2144.45
1+500.00	0.11	0.64	0.66	3.11	1066.51	2147.56
1+510.00	0.21	0.00	1.62	3.19	1068.13	2150.75
1+520.00	0.54	0.02	2.75	0.12	1070.89	2150.87
1+530.00	0.57	0.14	4.57	0.81	1075.46	2151.68
1+533.46	0.20	0.20	1.34	0.59	1076.80	2152.26
1+540.00	0.22	0.55	1.58	1.60	1078.37	2153.87
1+550.00	0.10	1.24	1.71	9.66	1080.08	2163.53
1+552.24	0.85	0.04	0.81	1.85	1080.90	2165.38
1+560.00	4.16	0.78	12.02	3.71	1092.92	2169.09
1+570.00	0.00	1.45	12.32	11.72	1105.24	2180.81
1+571.03	0.00	0.84	0.00	1.28	1105.24	2182.10
1+580.00	0.05	2.12	0.24	13.27	1105.48	2195.37
1+589.04	0.00	2.74	0.24	21.96	1105.72	2217.33
1+590.00	0.00	2.68	0.00	2.40	1105.72	2219.73
1+594.60	0.27	4.48	0.70	15.11	1106.41	2234.84
1+600.00	1.97	7.89	6.99	30.33	1113.40	2265.16
1+600.16	2.07	7.89	0.33	1.29	1113.73	2266.45
1+610.00	10.51	3.10	61.88	54.05	1175.61	2320.51
1+612.63	13.99	1.64	32.22	6.23	1207.83	2326.74
1+620.00	15.58	0.51	80.43	8.75	1288.26	2335.49
1+622.50	14.18	0.13	26.89	0.87	1315.15	2336.36
1+630.00	12.22	3.67	70.93	15.67	1386.08	2352.02
1+632.37	10.96	4.03	19.77	10.08	1405.85	2362.10
1+640.00	2.53	0.14	50.66	15.91	1456.52	2378.02
1+650.00	0.03	5.74	11.79	29.41	1468.30	2407.43
1+660.00	0.07	3.94	0.48	48.41	1468.78	2455.84
1+662.18	0.05	2.31	0.12	6.83	1468.91	2462.67
1+670.00	0.17	0.66	0.65	11.54	1469.56	2474.21
1+672.51	0.12	0.87	0.28	2.82	1469.84	2477.03
1+680.00	0.20	0.78	0.93	9.00	1470.77	2486.03
1+682.83	0.28	0.52	0.53	2.68	1471.30	2488.71
1+690.00	0.24	0.03	1.88	1.98	1473.17	2490.68
1+697.42	1.56	0.00	6.68	0.13	1479.85	2490.81
1+700.00	2.22	0.00	5.07	0.00	1484.92	2490.81
1+710.00	0.55	0.19	14.47	0.92	1499.39	2491.73
1+711.08	0.28	0.03	0.45	0.12	1499.84	2491.85
1+720.00	1.13	0.10	6.18	0.60	1506.02	2492.45
1+724.74	0.22	0.00	3.11	0.25	1509.13	2492.71
1+730.00	0.08	0.01	0.78	0.03	1509.91	2492.73
1+735.21	0.09	0.42	0.45	1.11	1510.36	2493.85
1+740.00	0.05	0.37	0.44	1.42	1510.80	2495.27
1+747.90	7.11	0.00	32.49	1.09	1543.29	2496.36
1+750.00	6.69	0.00	16.84	0.00	1560.13	2496.36
1+760.00	0.47	0.91	41.37	3.52	1601.50	2499.87
1+760.59	0.21	1.69	0.19	0.69	1601.68	2500.56
1+770.00	0.14	1.88	1.65	16.80	1603.33	2517.36
1+777.24	0.03	1.58	0.62	12.53	1603.95	2529.89
1+780.00	0.00	1.10	0.05	3.79	1604.00	2533.68
1+790.00	0.20	0.44	0.91	8.02	1604.91	2541.70
1+793.11	0.42	0.32	0.86	1.30	1605.77	2543.00
1+800.00	0.15	0.08	1.82	1.47	1607.59	2544.47
1+808.98	0.00	0.88	0.70	4.64	1608.29	2549.10
1+810.00	0.00	0.88	0.00	0.89	1608.29	2550.00
1+814.41	0.00	0.43	0.00	2.90	1608.29	2552.90
1+820.00	0.55	0.40	1.41	2.46	1609.70	2555.36
1+821.63	0.96	0.42	1.13	0.71	1610.83	2556.07
1+828.85	2.05	0.00	10.15	1.63	1620.97	2557.71
1+830.00	1.65	0.00	2.13	0.00	1623.10	2557.71
1+831.75	1.09	0.00	2.38	0.00	1625.49	2557.71
1+840.00	0.21	5.14	5.21	19.28	1630.70	2576.99
1+850.00	0.45	4.61	3.21	43.31	1633.91	2620.29
1+860.00	0.25	26.22	3.35	135.25	1637.26	2755.54

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
1+864.17	0.00	12.44	0.51	71.28	1637.77	2826.83
1+870.00	0.97	0.00	2.58	32.51	1640.35	2859.34
1+880.00	0.45	1.05	6.52	5.54	1646.88	2864.88
1+890.00	0.23	1.91	3.23	15.66	1650.10	2880.54
1+896.59	0.33	2.05	1.75	13.80	1651.85	2894.34
1+896.96	0.22	2.01	0.10	0.75	1651.96	2895.09
1+900.00	0.56	1.62	1.28	5.05	1653.23	2900.14
1+906.53	0.58	1.24	3.99	8.57	1657.22	2908.71
1+910.00	0.53	0.78	2.05	3.21	1659.27	2911.93
1+916.11	0.04	0.84	1.85	4.49	1661.11	2916.41
1+920.00	0.00	1.80	0.07	5.13	1661.18	2921.54
1+930.00	0.01	0.65	0.07	12.25	1661.25	2933.80
1+934.93	0.10	0.69	0.28	3.29	1661.53	2937.08
1+940.00	0.13	0.72	0.58	3.64	1662.11	2940.72
1+950.00	0.14	0.61	1.34	6.81	1663.45	2947.53
1+956.99	0.00	0.42	0.49	3.69	1663.93	2951.22
1+960.00	0.00	0.95	0.00	2.08	1663.94	2953.30
1+970.00	0.01	0.55	0.06	7.56	1664.00	2960.86
1+979.05	0.87	0.00	4.00	2.55	1668.00	2963.42
1+980.00	1.00	0.00	0.89	0.00	1668.89	2963.42
1+990.00	2.41	0.00	17.05	0.00	1685.94	2963.42
1+990.89	2.80	0.00	2.32	0.00	1688.25	2963.42
2+000.00	0.00	4.15	12.75	19.12	1701.01	2982.54
2+008.58	0.00	7.81	0.00	51.72	1701.01	3034.26
2+010.00	0.00	7.25	0.00	10.68	1701.01	3044.94
2+020.00	0.01	2.70	0.06	49.80	1701.06	3094.73
2+026.27	2.19	1.70	7.26	13.57	1708.32	3108.31
2+030.00	0.05	2.11	4.17	7.11	1712.50	3115.41
2+035.82	0.61	1.72	1.93	11.16	1714.42	3126.57
2+040.00	1.61	0.78	4.26	4.96	1718.69	3131.54
2+046.53	1.15	0.64	8.26	4.32	1726.95	3135.86
2+050.00	1.34	0.33	3.97	1.49	1730.92	3137.34
2+057.23	1.34	0.76	8.87