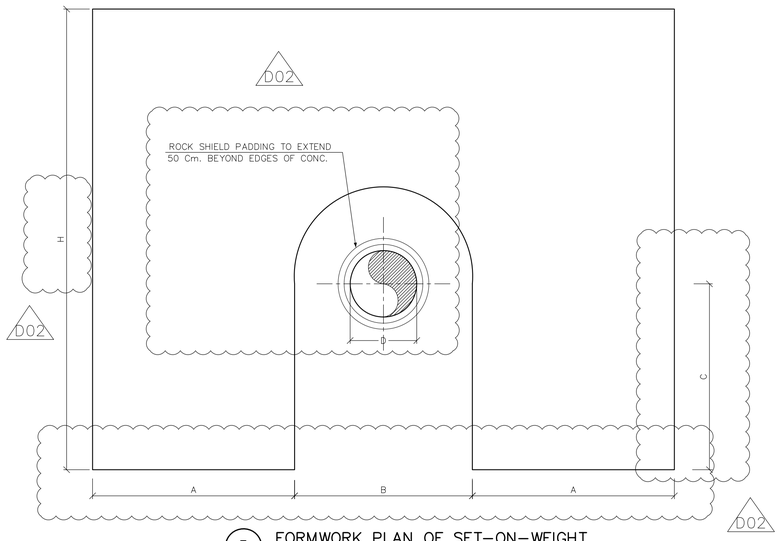
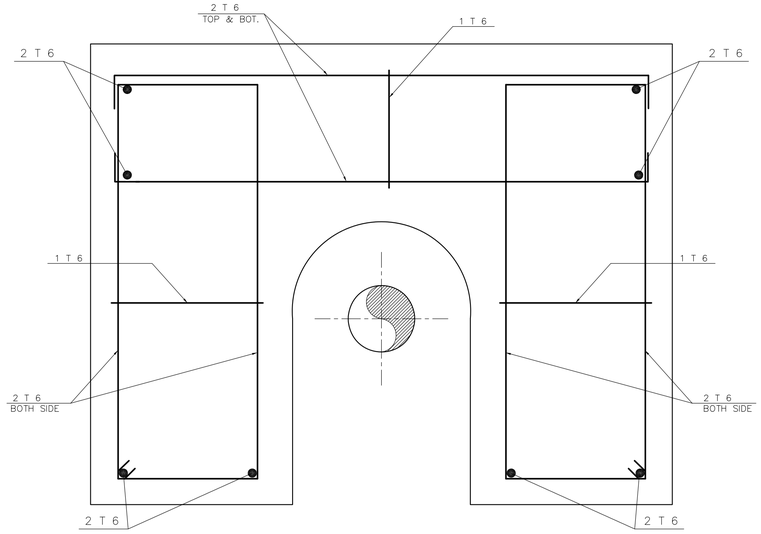


N.T.S. 1 FORMWORK PLAN OF SET-ON-WEIGHT



N.T.S. 2 REINFORCEMENT PLAN OF SET-ON-WEIGHT

D02

DIMENSIONS AND SPACING OF SET-ON WEIGHTS							
PIPE SIZE in.	PIPE W.T. in.	A m.m.	B m.m.	C m.m.	H m.m.	DISTANCE OF WEIGHTS ON PIPELINE m.m.	WEIGHTS KG.
D<10"	0.279	160	300	130	450	5000	248
10"<D<16"	0.281	180	450	250	600	3000	500

NOTES

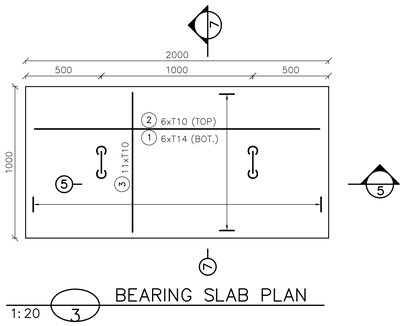
1- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- SET ON WEIGHTS SHALL BE CALCULATED BY ENGINEERING DESIGNER.
3- SLAB SHALL BE PREFABRICATED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.THE SLAB SHALL BE PLACED IN TRENCH AND DIRECTLY ABOVE THE PIPE ALLOWING A MINIMUM CLEARANCE OF 600mm. BETWEEN THE TOP OF PIPE AND BOTTOM OF SLAB.
4- WARNING SLAB SHALL BE INSTALLED AT LOCATIONS WHERE THERE IS A POSSIBILITY OF THE TRENCH AND THE PIPE BEING DISTURBED OR DAMAGED DUE TO FUTURE CONSTRUCTION WORKS IN THE AREA. SUCH AS ROAD CROSSING RIVER WATER CANAL AND ETC.
5- TOP OF SLAB SHALL BE MARKED AFTER CASTING & WHEN PLACED IN POSITION THE MARK SHALL FACE UPWARD .
6- PROTECTIVE COATING WITHOUT BITUMEN SHOULD BE USED WHERE THE CONCRETE IS IN CONTACT WITH WATER.
7-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)
8-ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001",28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 10 MPa(ON CYLINDRICAL SPECIMEN)
9- REINFORCING BARS SHALL BE TYPE AIII & S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 300 N/mm^2.
10- ALL REINFORCEMENT TO HAVE MIN. 50 mm COVER.
11- PORTLAND CEMENT SHALL BE REFERED TO GEOTECHNICAL INVESTIGATION REPORT.

LEGEND AND ABBREVIATION

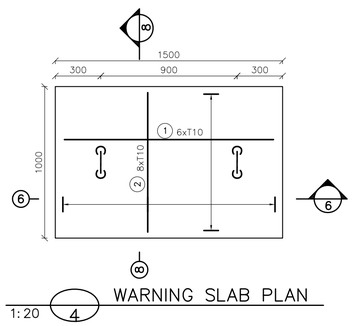
	REINFORCED CONCRETE
	LEAN CONCRETE
	BACKFILL
	GRAVEL
	COMPACTED SOIL
R.O.W.	RIGH OF WAY
℄	CENTER LINE
D	PIPE DIAMETER

REFERENCE DRAWING	DRG. No.
GENERAL NOTES - REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
CONSTRUCTION STANDARD FOR CONCRETE STRUCTURES	IPS-C-CE-200
PIPELINE STEAM OR RIVER CROSSING CONCRETE COAT AND SET-ON WEIGHT DETAILS	NIOEC-SD-5508-1/1-A1

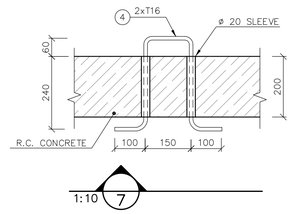
D02



1:20 3 BEARING SLAB PLAN



1:20 4 WARNING SLAB PLAN



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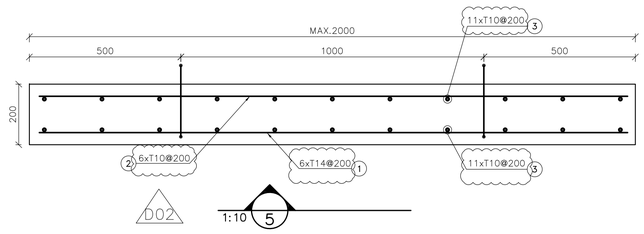

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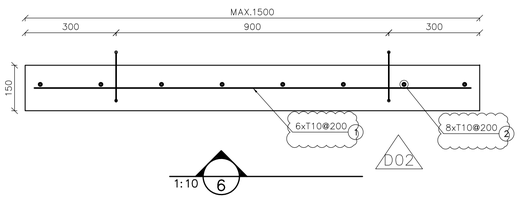

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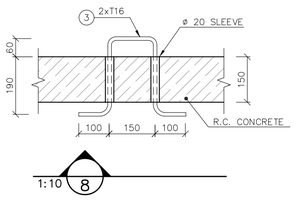

1:10 8

KEY PLAN

BAR BENDING SCHEDULE FOR BEARING SLAB							
Pos.	Dia.	LEN. (m)	NUM.	FIGURE (cm)	ϕ10	ϕ14	ϕ16
1	14	1.90	6	190		11.40	
2	10	1.90	6	190	11.40		
3	10	0.90	22	90	19.80		
4	16	1.15	2	10, 30, 15, 30, 10			2.30
TOTAL LENGHT OF DIAMETER					31.20	11.40	2.30
UNIT WEIGHT (kg/m)					0.617	1.210	1.580
TOTAL WEIGTH (Kg)					19.25	13.79	3.63

NOTE:
-ABOVE QUANTITIES ARE FOR ONE SLAB.

D02

BAR BENDING SCHEDULE FOR WARNING SLAB						
Pos.	Dia.	LEN. (m)	NUM.	FIGURE (cm)	ϕ10	ϕ16
1	10	1.40	12	140	16.80	
2	10	0.90	16	90	14.40	
3	16	0.75	2	10, 20, 15, 20, 10		1.50
TOTAL LENGHT OF DIAMETER					31.20	1.50
UNIT WEIGHT (kg/m)					0.617	1.580
TOTAL WEIGTH (Kg)					19.25	2.37

NOTE:
-ABOVE QUANTITIES ARE FOR ONE SLAB.

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	BY	DATE	BY	DATE
D02	SEP.2022	IFA	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**	***	**********	CHECKED		REV. APPR.	
D01	JUL.2022	IFA	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**			**.**	***.****	**.**	***.****
D00	DEC.2021	IFC	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**						

PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

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

DRAWING TITLE: PIPELINE STANDARD DRAWING FOR COVER SLABS AND SET-ON-WEIGHT

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-GNRAL-PEDCO-000-PL-DW-0013	1 of 1	D02

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 GENERAL

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	5	L	707177	1	D02