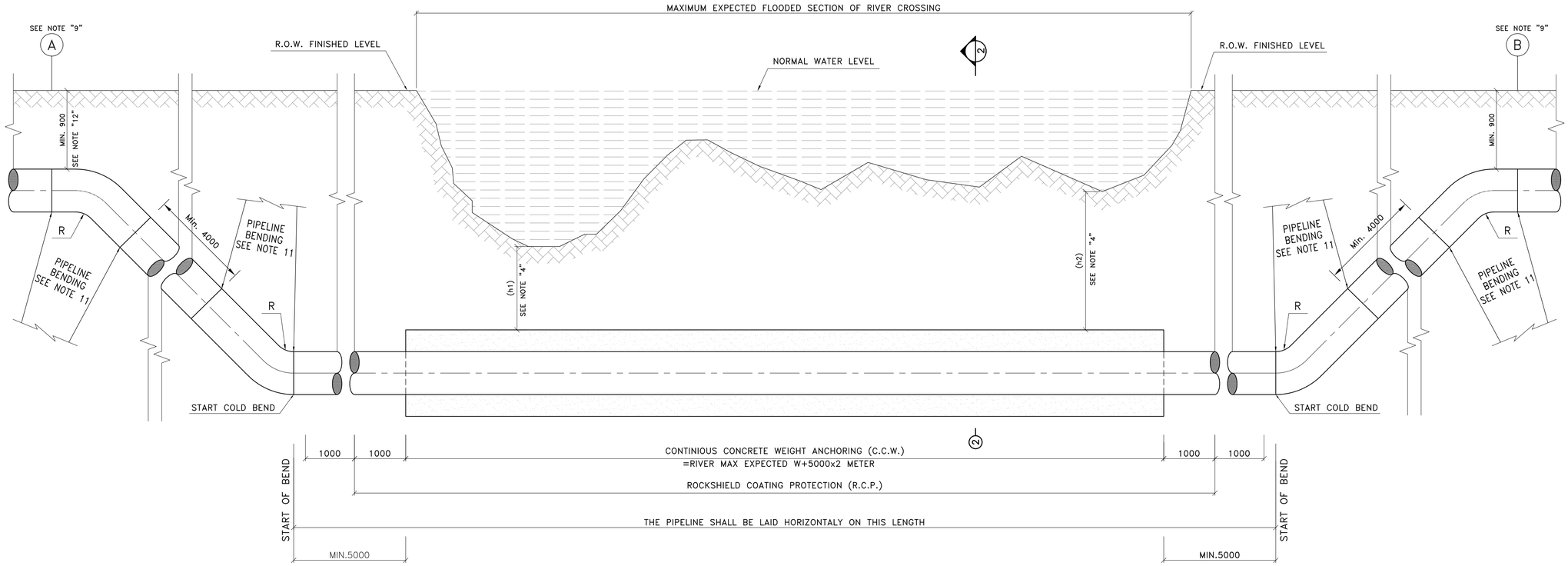
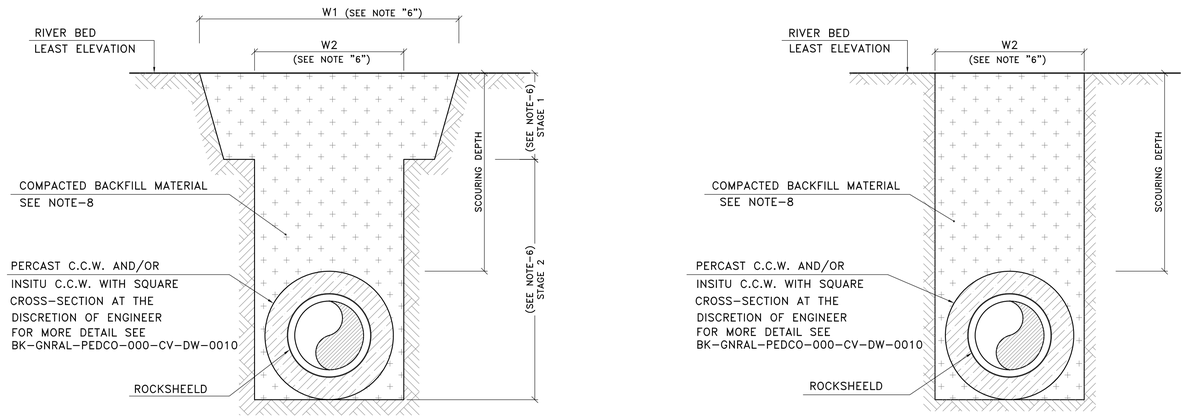


N.T.S. – 1 MAJOR RIVER CROSSING DETAIL
TYPE "1"



1:10 2 EXCAVATION CROSS-SECTION DETAIL
(SEE NOTES 6)

NOTES

1- ALL DIMENDIONS SHOWN ON THIS DRAWING ARE IN MILIMETERS UNLESS OTHERWISE INDICATED.
2- ALL WELDS LOCATED ON THE ENTIRE LENGTH OF RIVER CROSSING (BETWEEN POINT "A"&"B") SHALL BE TESTED 100% BY RADIOGRAPHY.
3- ALL MAJOR RIVER CROSSINGS SHALL BE PRE TESTED AT 95% OF S.M.Y.S. BEFORE INSTALLATION. DURING SUCH PRE TESTING, TEST PRESSURE SHALL BE HELD FOR FOUR (4) HOURS.
4- "h1","h2" PIPE IS TO BE BURIED BENEATH THE RIVER BED IN ACCORDANCE WITH THE SPECIFICATIONS MINIMUM COVER 2500mm IN EARTH BOTTOM & 1200mm ROCK BOTTOM.
5- THE MINIMUM BEND RADIUS SHALL BE FOLLOWED PROJECT DOCUMENT: "SPECIFICATION FOR PIPELINE COLD BENDING BK-GNRAL-PEDCO-000-PL-SP-0003"
6- IN CASE, TOTAL DEPTH OF TRENCH ANYWHERE ALONG THE RIVER CROSSING/S BE ABOVE THE CAPABILITY OF EXCAVATOR/BACKHOE TO REACH TO THE BOTTOM OF THE TRENCH , THE EXCAVATION SHALL BE CARRIED-OUT AT THE FOLLOWING STAGES.
STAGE "1": BY SMALL BULLDOZER.
STAGE "2": BY EXCAVATOR / BACKHOE.
WHERE:"W1" IS THE WIDTH OF EXCAVATION BY SMALL BULLDOZER AND TO BE AS SMALL AS POSSIBLE.
"W2" SHALL BE THE MINIMUM REQUIREMENT FOR CONVENIENT OPERATION OF EXCAVATOR / BACKHOE.
7- FOR ADDITIONAL CONSTRUCTION DETAIL,SEE CORRESPONDING DETAIL DRAWING OF PLAN PROFILE OF PIPES.
8- TRENCH BACKFILL ACROSS THE STREAM/TORRENT/RIVER/ETC. CROSSING SHALL BE COMPACTED/CONSOLIDATED TO ITS ORIGINAL NATURAL LEVEL.
9- DOUBLE COAT/WRAP SHALL BE APPLIED BETWEEN POINTS "A" AND "B".
10- PIPELINE UNDER RIVER SHALL CONNECTED TO SACRIFICIAL ANODE IN CONSTRUCTION
11- PIPELINE BENDING RADIUS ACCORDING TO DOC. BK-GNRAL-PEDCO-000-PL-SP-0003
12- MINIMUM DEPTH OF COVER:
ROCKY TERRAIN=600 mm
UNCULTIVATED TERRAIN OTHER THAN ROCKY=900 mm
CULTIVATED TERRAIN=1200 mm

LEGEND AND ABBREVIATION

	REINFORCED CONCRETE
	LEAN CONCRETE
	BACKFILL
	GRAVEL
	COMPACTED SOIL
	WATER
R.O.W.	RIGH OF WAY
R.C.P	ROCKSHIELD COATING PROTECTION
C.C.W	CONTINUOUS CONCRETE WEIGHT
℄	CENTER LINE

REFERENCE DRAWING	DRG. No.
GENERAL NOTES – REINFORCED CONCRETE STRUCTURES	BK-GNRAL-PEDCO-000-ST-DW-0012
SPECIFICATION FOR COATING OF UNDERGROUND PIPING	BK-GNRAL-PEDCO-000-PI-SP-0013
SPECIFICATION FOR CATHODIC PROTECTION SYSTEM	BK-GNRAL-PEDCO-000-EL-SP-0016
INSTALLATION DETAILS & NOTES FOR CATHODIC PROTECTION SYSTEMS	BK-GNRAL-PEDCO-000-EL-DW-0005
SPECIFICATION FOR PIPELINE COLD BENDING	BK-GNRAL-PEDCO-000-PL-SP-0003
STANDARD DRAWING RIVER CROSSING AND ELEVATED PIPE SUPPORT FOR RIVER CROSSING.	S4-04102
STANDARD DRAWING FOR CONCRETE CONTINUES WEIGHT	BK-GNRAL-PEDCO-000-CV-DW-0010
STANDARD DRAWING FOR UNDER GROUND PIPELINE CONSTRUCTION R.O.W	BK-GNRAL-PEDCO-000-PL-DW-0003

KEY PLAN

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D02	JUL.2022	AFC	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**
D01	APR.2022	IFA	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**
D00	DEC.2021	IFC	R.BERLOUIE	M.FAKHARIAN	M.MEHRSHAD	**.**

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

PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL
PROJECT NO.: 971020

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

BINAK OILFIELD DEVELOPMENT GENERAL

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE: PIPELINE STANDARD DRAWING FOR RIVER CROSSING

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

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A1	BK-GNRAL-PEDCO-000-PL-DW-0014	1 of 1	D02

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	5	L	707178	1	D02