

NOTES	
LEGEND	
REFERENCE DRAWING	DWG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-2-EI-200
KEY PLAN	

[illegible]

DRAWING INDEX

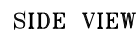
ITEM No.	DESCRIPTION	SHEET No.	ID NO.	D00	D01	D02	D03
1	COVER PAGE	01		X	X	X	X
2	DRAWING INDEX	02		X	X	X	X
3	LV MOTOR (HORIZONTAL)	03	P.S.1	X	X	X	
4	MV MOTOR (VERTICAL)	04	P.S.2	X	X	X	
5	MOTOR OPERATED VALVE (ON TANK)	05	P.S.3	X	X	X	
6	POWER RECEPTACLE	06	P.S.4	X	X	X	
7	STUB-UP CONDUIT PIPE	07	P.S.5	X	X	X	
8	STUD TERMINAL TYPE	08	P.S.6	X	X	X	
9	CABLE IDENTIFICATION NO. AND LOCATION	09	P.S.7	X	X	X	
10	CABLE ROUTE MARKER & LOCATION	10	P.S.8	X	X	X	
11	CONCRETE CABLE DUCT BANK (ROAD CROSSING)	11	P.S.9	X	X	X	
12	CROSSING TO INSTRUMENT SIGNAL CABLES	12	P.S.10	X	X	X	
13	CABLE TRENCH	13	P.S.11	X	X	X	
14	CABLE TRENCH	14	P.S.12	X	X	X	
15	CONDUIT & CABLE SUPPORT	15	P.S.13	X	X	X	
16	MULTIPLE CONTROL STATION	16	P.S.14	X	X	X	
17	CABLE ROOM	17	P.S.15	X	X	X	
18	STANCHION FOR CONTROL STATION	18	P.S.16	X	X	X	
19	INSTALLATION OF STANCHION FOR CONTROL STATION	19	P.S.17	X	X	X	
20	CONDUIT SELECTION CHART	20	P.S.18	X	X	X	
21	CABLE GLAND SELECTION CHART	21	P.S.19	X	X	X	
22	TRANSFORMER	22	P.S.20	X	X	X	
23	TRANSFORMER CONNECTION	23	P.S.21		X	X	
24	AROUND TRANSFORMER	24	P.S.22		X	X	
25	AROUND TRANSFORMER	25	P.S.23		X	X	
26	LV-DIESEL GENERATOR	26	P.S.24		X	X	
27	MCC/SWITCHGEAR INSTALLATION	27	P.S.25		X	X	
28	SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION	28	P.S.26		X	X	
29	SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION	29	P.S.27		X	X	
30	SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION	30	P.S.28		X	X	
31	SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION	31	P.S.29		X	X	
32	CABLE TRAY SYSTEM	32	P.S.26		X	X	
33	MV HORIZONTAL MOTOR CABLING	33	P.S.27		X	X	
34	CABLE TRAY INSTALLATION IN CABLE CELLAR	34	P.S.28		X	X	
35	CABLE FIXING ON CABLE TRAY	35	P.S.29		X	X	

NOTES	
LEGEND	
REFERENCE DRAWING	DIR. No.
POWER INSTALLATION DETAIL CATEGORY 800	IPS-D-BL-200

Country	Year	Population	GDP	GDP per capita
China	1990	1,196,000,000	223,000,000,000	187
China	2000	1,265,000,000	1,080,000,000,000	854
China	2005	1,306,000,000	2,820,000,000,000	2,157
China	2006	1,326,000,000	3,140,000,000,000	2,368
China	2007	1,340,000,000	3,550,000,000,000	2,649
China	2008	1,354,000,000	4,010,000,000,000	2,961
China	2009	1,368,000,000	4,470,000,000,000	3,267
China	2010	1,382,000,000	4,930,000,000,000	3,567
China	2011	1,396,000,000	5,390,000,000,000	3,860
China	2012	1,410,000,000	5,850,000,000,000	4,150
China	2013	1,424,000,000	6,310,000,000,000	4,437
China	2014	1,438,000,000	6,770,000,000,000	4,714
China	2015	1,452,000,000	7,230,000,000,000	5,000
China	2016	1,466,000,000	7,690,000,000,000	5,280
China	2017	1,480,000,000	8,150,000,000,000	5,557
China	2018	1,494,000,000	8,610,000,000,000	5,833
China	2019	1,508,000,000	9,070,000,000,000	6,110
China	2020	1,522,000,000	9,530,000,000,000	6,380

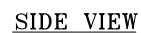
KEY PLAN	

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












LV MOTOR (HORIZONTAL)

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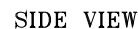
MV MOTOR (VERTICAL)

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<table><tr><td colspan="10">TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM</td></tr><tr><td>RCAL</td><td>SRIS</td><td colspan="2">DRAWING NO.</td><td>SHEET NO.</td><td>REV.</td><td colspan="4"></td></tr><tr><td>N.T.S</td><td>AS</td><td colspan="2">BK-GRAND-PEDCO-00-EL-DR-0004</td><td>04 OF 36</td><td>003</td><td colspan="4"></td></tr></table>										TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM										RCAL	SRIS	DRAWING NO.		SHEET NO.	REV.					N.T.S	AS	BK-GRAND-PEDCO-00-EL-DR-0004		04 OF 36	003																																																																																														
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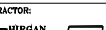
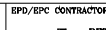

No.	DESCRIPTION	QTY.
①	CABLE GLAND	2-EA
②	RIGID STEEL CONDUIT	AS REQD.
③	CABLE ID. NUMBER TAG PLATE	2-EA
④	FIXING TIE	4-EA

D09	OCT.2002	P1	MURABBA	M/ARABIAN	MEDIBRAB	
D08	NOV.2001	IPI	MURABBA	M/ARABIAN	MEDIBRAB	
D07	OCT.2001	IPI	MURABBA	M/ARABIAN	MEDIBRAB	
D06	AUG.2001	IPI	MARCHANDGHA	M/ARABIAN	SAGHJAHAN	
REV.	DATE2	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL						
PROJECT NO.: 971080						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
<div><div></div><div></div><div>BIRGAN ENERGY - DESIGN & INSPECTION COMPANIES</div></div>			<div><div></div><div>PETROIRAN DEVELOPMENT COMPANY</div></div>			
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	REVISION	SERIAL NO.	SHEET#	REVISION
063-073-0104	F	Z P	702728	06 OF 36	03	D03

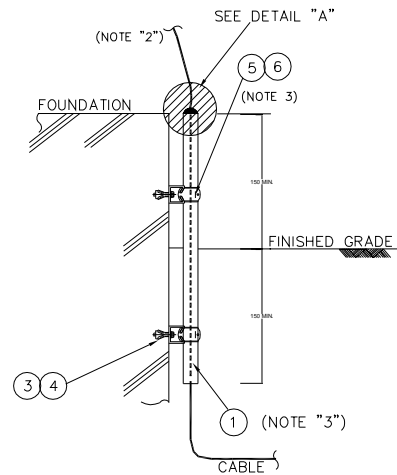


No.	DESCRIPTION	QTY.
①	POWER RECEPTACLE	1-ea
②	BOLT & NUT WITH 1-SPRING & 2-FLAT WASHERS	4-ea
③	JUNCTION BOX	1-ea
④	BOLT & NUT WITH 1-SPRING & 2-FLAT WASHERS	4-ea
⑤	CABLE GLAND	4-ea
⑥	RIGID STEEL CONDUIT	AS REQ'D.
⑦	CABLE ID. NUMBER TAG PLATE	2-ea
⑧	FIXING TIE	4-ea
⑨	SUPPORT CHANEL (L=100x50x5)	AS REQ'D.
⑩	SUPPORT ANGLE (L=50x50x5)	AS REQ'D.
⑪	SUPPORT ANGLE (L=50x50x5), IF NECESSARY	AS REQ'D.
⑫	MASONARY ANCHOR, WITHOUT STUD	2-ea
⑬	BOLT & NUT WITH 1-SPRING & 1-FLAT WASHER	2-ea

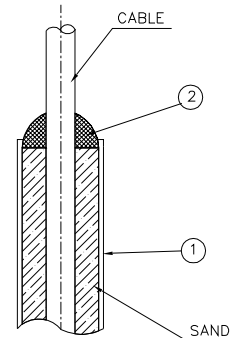
POWER RECEPTACLE

D09	OCT-2009	7%	K.HAFSAH	M.FAHAMUD	M.WISNUARDI	
D08	NOV-2001	17%	K.HAFSAH	M.FAHAMUD	M.WISNUARDI	
D01	OCT-2001	17%	K.HAFSAH	M.FAHAMUD	M.WISNUARDI	
D00	AUG-2001	17%	K.HAFSAH	M.FAHAMUD	S.SILWALAKA	
REV.	DATE	P.O.L.I	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL						
PROJECT NO.: 971000						
EPC CONTRACTOR:			EPC/EPC CONTRACTOR (C):			
						
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APPROVED FOR CONSTRUCTION BY:				DATE:		
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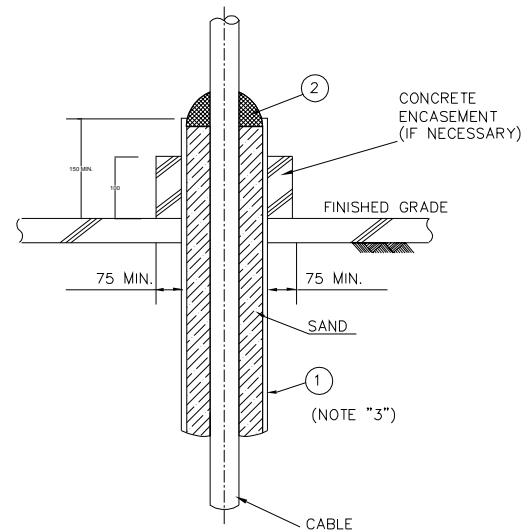
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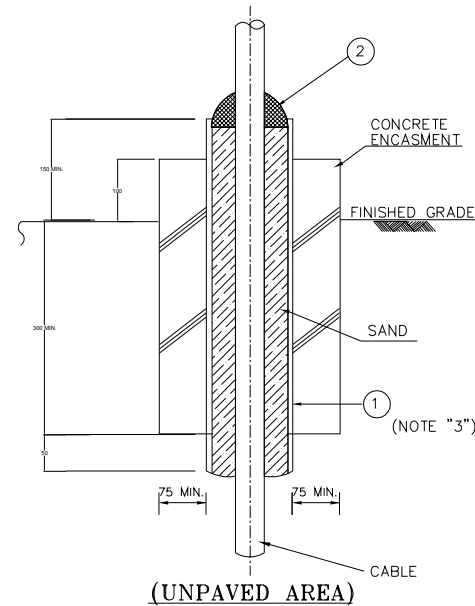
DETAIL "A"



TYPE "B"



(PAVED AREA)



(UNPAVED AREA)

No.	DESCRIPTION	QTY.
①	RIGID STEEL CONDUIT.	AS REQD.
②	NON HARDENING SEALING COMPOUND	AS REQD.
③	MASONRY ANCHOR	AS REQD.
④	M8x15L BOLT & NUT WITH 1-SPRING & 2-FLAT WASHERS FOR MASONRY ANCHOR	AS REQD.
⑤	UNISTRUT CHANNEL ([-40x30x10x2.5thk x120L)	AS REQD.
⑥	UNISTRUT CLAMP WITH BOLT/NUT	AS REQD.

STUB-UP CONDUIT PIPE

NOTES

- 1- ALL DIMENSIONS ARE IN MILLIMETERS.
- 2- END OF RIGID STEEL CONDUIT TO BE REAMED FREE OF ALL BURRS.
- 3- FOR CONDUIT SUPPORT, REFER TO SHT. 16.
- 4- CLEAN SAND SHALL BE FILLED IN THE CONDUIT.

LEGEND

REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAN

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
001	07/07/2008	ISSUED FOR CONSTRUCTION
002	07/07/2008	ISSUED FOR CONSTRUCTION
003	07/07/2008	ISSUED FOR CONSTRUCTION
004	07/07/2008	ISSUED FOR CONSTRUCTION
005	07/07/2008	ISSUED FOR CONSTRUCTION
006	07/07/2008	ISSUED FOR CONSTRUCTION
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100	07/07/2008	ISSUED FOR CONSTRUCTION

The diagram consists of two side-by-side cross-sectional views of motor terminal boxes, labeled 'L/V MOTOR' and 'H/V MOTOR'.

- L/V MOTOR:** Shows three vertical cable leads entering from the top. Each lead has a central conductor surrounded by insulation, with a lead wire branching off. The cables are bundled together and pass through a cable gland at the bottom, which is mounted on a cable outer sheath.
- H/V MOTOR:** Shows a similar setup but with a more complex internal arrangement. It includes a 'CABLE INNER SHEATH' and a grounding point (earth symbol) connected to the inner sheath. The cables also pass through a cable gland and outer sheath.

Common labels for both diagrams include:

- MOTOR TERMINAL BOX
- LEAD WIRE OF MOTOR
- SEE DETAIL (TYPE "A" & "B")
- CABLE INSULATION
- CABLE GLAND
- CABLE OUTER SHEATH

Reference markers 'X', 'Y', and 'Z' are used to point to specific components. A circled number '7' is also present on both diagrams. A legend at the bottom right indicates:

- X: {
- Y: } NOTE "1"
- Z: }

Diagram illustrating the assembly of a bolt and nut. The components are labeled with callouts:

- 1: Bolt head (NOTE "4", "5")
- 2: Nut (NOTE "2")
- 3: Washer (NOTE "3")
- 4: Bolt shank
- 5: Nut shank

Diagram illustrating a cross-section of a pipe joint assembly. The assembly consists of a central pipe (1) passing through a flange (2) and a gasket (3). The flange is secured by a bolt (4) and a nut (5). The gasket is labeled (NOTE "3"). The flange is labeled (NOTE "2"). The bolt is labeled (NOTE "4", "5"). The nut is labeled (NOTE "3").

MOTOR TERMINAL BOX

Diagram illustrating the internal wiring and components of a motor terminal box. The box is shown with three terminals (1, 2, and 3) and a cable gland. The wiring is connected to the terminals and the cable gland. The diagram is labeled with the following components:

- 1: ONLY FOR H/V MOTORS
- 2: (NOTE "6")
- 3: CABLE GLAND
- CABLE OUTER SHEATH

CABLE TERMINATION FOR MOTOR

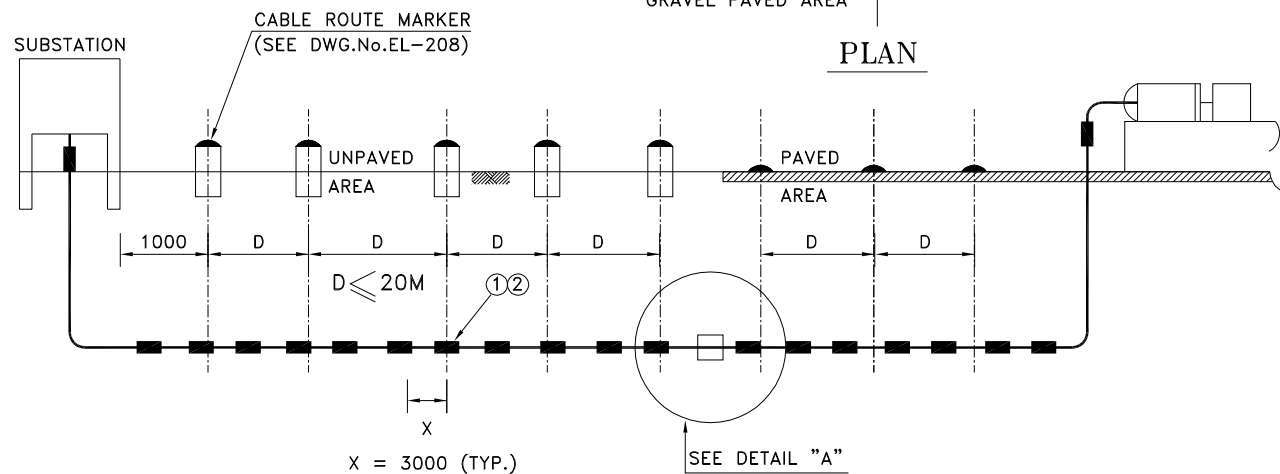
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NOTES	
1-	APPLICABLE MANUFACTURERS RECOMMENDATION OR INSTRUCTION TO BE FOLLOWED FOR CABLE TERMINATION.
2-	WRAP THE VARNISHED OR SIMILAR NON-ADHESIVE TAPE OVER THE CONNECTED TERMINAL LUG IN ORDER TO PREVENT THE DAMAGE OF INSULATION TAPE FROM THE SHARP EDGE OF BOLT AND NUT, FOR HIGH VOLTAGE MOTOR ONLY.
3-	WRAP THE INSULATION TAPE WITH THE THICKNESS OF AT LEAST 8mm(H/V CABLE) AND 2mm(L/V CABLE).
4-	CONNECTION SHALL BE FIRMLY BOLTED.
5-	BOTH CONNECTION TYPE "A" & "B" CAN BE APPLIED DEPENDING ON THE SPACE IN TERMINAL BOX.
6-	EARTH CONDUCTOR SHALL BE WRAPPED WITH GREEN COLOR PVC TAPE, OR GREEN COLOR INSULATION WIRE SHALL BE USED.

LEGEND

REFERENCE DRAWING	DWG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAY



DUCT BANK
(SLEEVE PIPE)
FOR
ROAD CROSSING

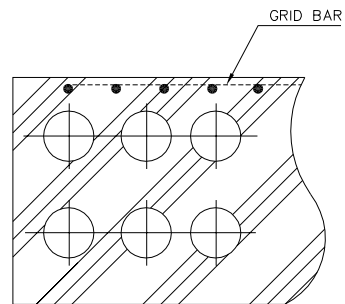
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The diagram illustrates the connection of a cable to a device. The top part shows a cable with a label 'CABLE' and a connector labeled '1'. The bottom part shows a device with a port labeled '2' and a connector labeled '1'.

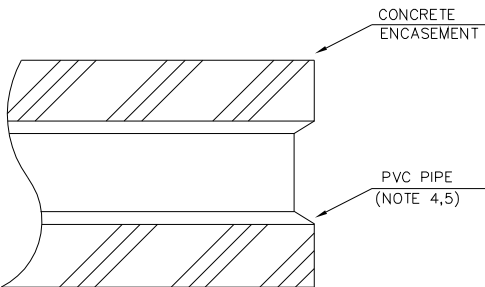
CABLE IDENTIFICATION NO. AND LOCATION

KEY PLAN	

[illegible]



TYPICAL REINFORCEMENT



DETAIL OF CABLE DUCT END





CONCRETE CABLE DUCT BANK (ROAD CROSSING)

NOTES

- 1- ALL DIMENSIONS ARE IN MILLIMETERS.
- 2- CABLES SHALL BE INSTALLED IN LEVEL WITH THE ASSOCIATED PVC PIPES.
- 3- FOR CABLE ROUTE MARKER, REFER TO SHT. 10.
- 4- EACH DUCT END SHALL BE REAMED.
- 5- EACH END OF THE SPARE PVC PIPE SHALL BE CAPPED.
- 6- 20% SPARE PVC PIPE SHALL BE PROVIDED.

LEGEND	
REFERENCE DRAWING	DWG. No.
POWER INSTALLATION DETAIL CATEGORY 800	IPS-D-EE-200

KEY PLAN

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


CABLE TRENCH

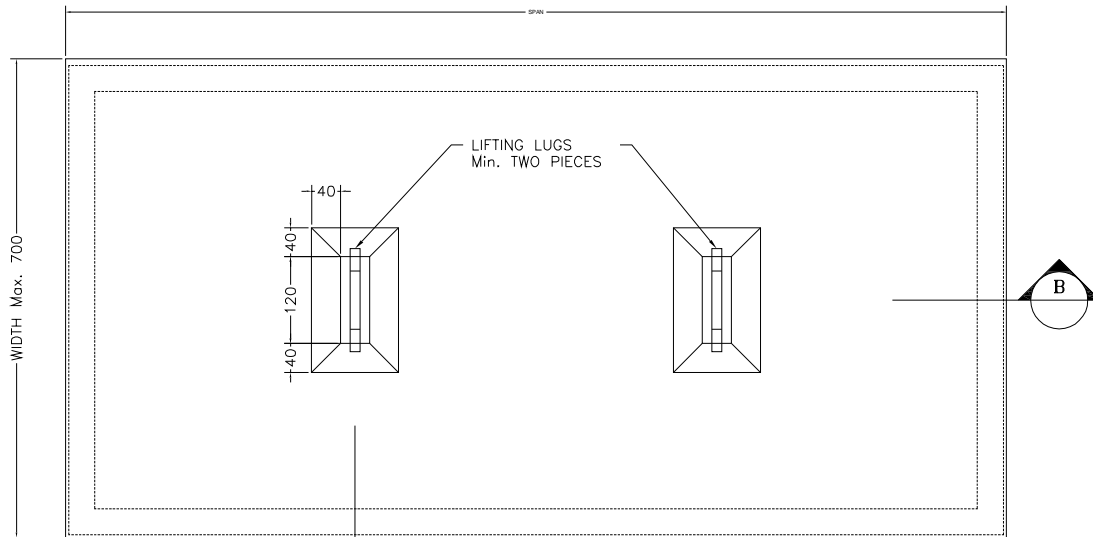
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LEGEND

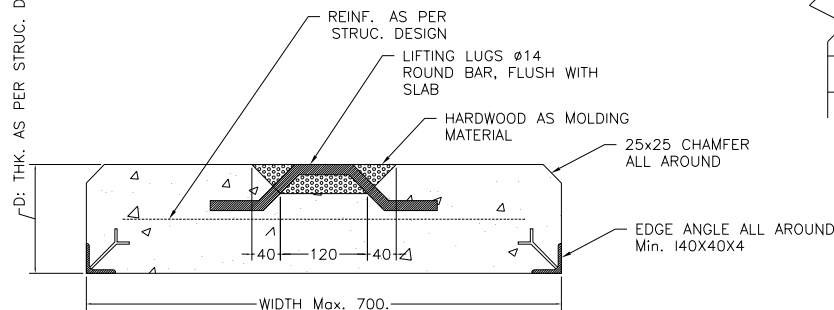
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POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAN

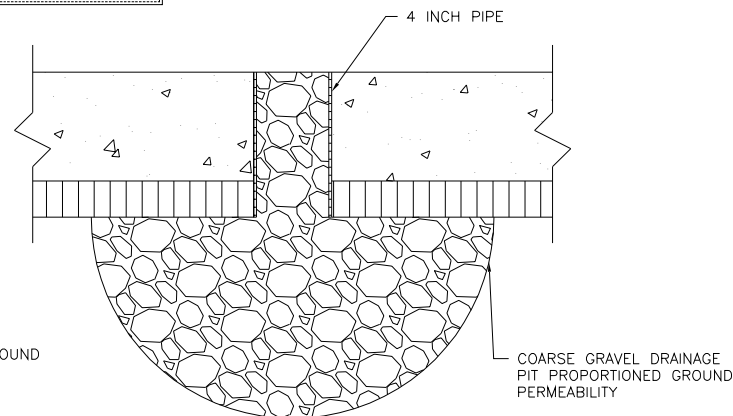
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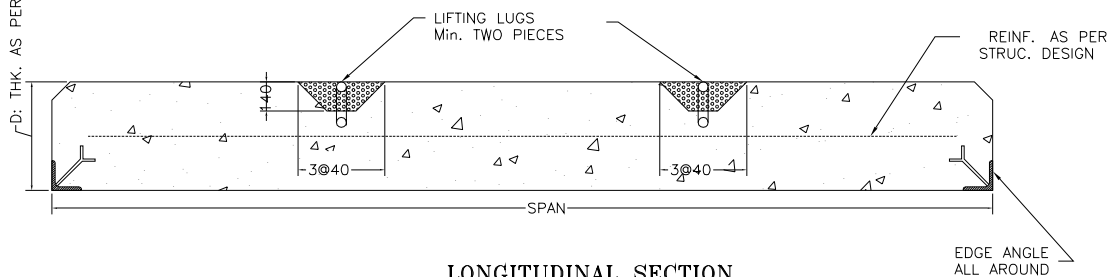
COVER SLAB PLAN VIEW



TRANSVERSE SECTION



DETAIL OF DRAINAGE HOLES



LONGITUDINAL SECTION

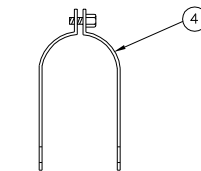
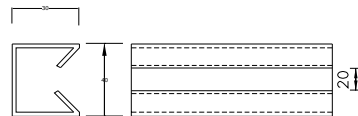
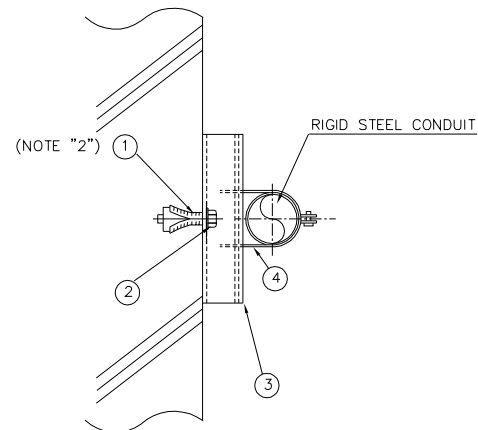
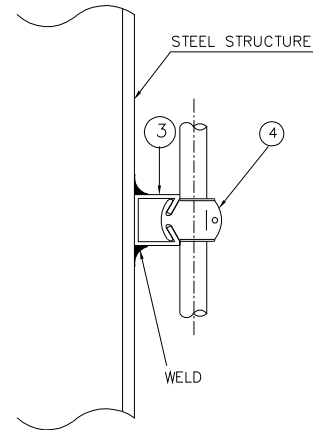
CABLE TRENCH

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETERS.
 - HORIZONTAL CABLE SPACING SHALL BE BASED ON CABLE SIZING REQUIREMENTS.
 - CIVIL/STRUCTURAL DESIGN OF TRENCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. MINIMUM REQUIREMENTS : $f_y=240$ MPa FOR REINFORCING STEEL & $f_c=20$ MPa FOR STRUCTURAL CONCRETE.
 - COVER SLAB WEIGHT SHOULD BE LIMITED TO NOT MORE THAN 200 KG.
 - JOINTS ALL AROUND COVER SLABS SHALL BE THOROUGHLY FILLED WITH FINE-SAND ASPHALT.
 - A MINIMUM OF 20% CONTINUOUS SPARE SPACE SHALL BE PROVIDED ON CABLE TRAYS FOR FUTURE EXTENSION/MODIFICATION.
 - ALL CABLE TRENCHES IN ELECTRICALLY HAZARDOUS AREAS SHALL BE SAND FILLED.
 - IN SAFE AREAS, TRENCHES ARE NOT REQUIRED TO BE SAND FILLED. CABLES MAY BE LAID ON TRAYS AT THE DISCRETION OF THE DESIGN ENGINEER.
 - DATA CABLES (TELECOMMUNICATIONS, COMPUTER NETWORKS, INSTRUMENTATION SIGNALS & CONTROL, ETC.) SHALL NOT BE PLACED IN THE SAME TRENCH BAY AS POWER CABLES.
 - IF CLEAR WIDTHS AND VALUES GIVEN IN THE TABLES ARE NEEDED, NEW BAYS SHALL BE ADDED TO THE TRENCH SECTION.
 - TRENCH BOTTOM SHALL BE LONGITUDINALLY SLOPED AWAY FROM SWITCHGEAR ROOM.
 - WHERE NORMAL WATER TABLE IS BELOW TRENCH BOTTOM, DRAINAGE HOLES ARE REQUIRED AT PROPER SPACING SPECIFIED BY THE DESIGN ENGINEER.

REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL, CATEGORY 200	IPS-D-EL-200

KEY PLAN

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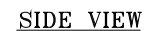
SECTION "A-A"

DETAIL "B"





No.	DESCRIPTION	QTY.
①	MASONRY ANCHOR	
②	M8x15L BOLT & NUT WITH 1-SPRING & 2 FLAT WASHERS FOR MASONRY ANCHOR	
③	UNISTRUT CHANNEL ([40X30X10X2.5thkx120L)	
④	UNISTRUT CLAMP WITH BOLT/NUT.	

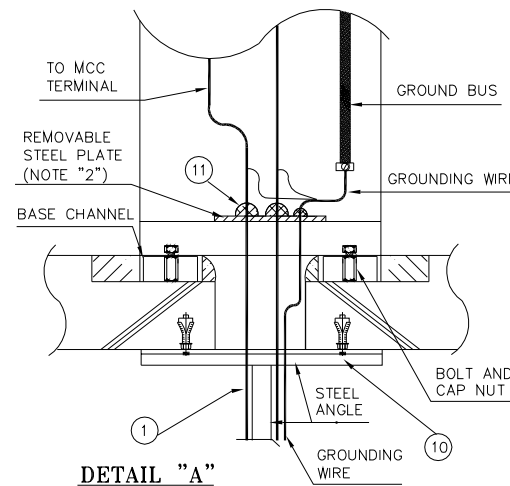
CONDUIT & CABLE SUPPORT

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MULTIPLE CONTROL STATION

<table><tr><td>DOS</td><td>OCT.2002</td><td>PI</td><td>ELABORATE</td><td>ELABORATE</td><td>ELABORATE</td></tr><tr><td>DOS</td><td>NOV.2001</td><td>PI</td><td>ELABORATE</td><td>ELABORATE</td><td>ELABORATE</td></tr><tr><td>DOI</td><td>OCT.2001</td><td>PI</td><td>ELABORATE</td><td>ELABORATE</td><td>ELABORATE</td></tr><tr><td>DOS</td><td>AUG.2002</td><td>PI</td><td>ELABORATE</td><td>ELABORATE</td><td>ELABORATE</td></tr><tr><td>REV.</td><td>DATE</td><td>P.O.I.F</td><td>PREP.</td><td>CHK.</td><td>APP.</td></tr></table>						DOS	OCT.2002	PI	ELABORATE	ELABORATE	ELABORATE	DOS	NOV.2001	PI	ELABORATE	ELABORATE	ELABORATE	DOI	OCT.2001	PI	ELABORATE	ELABORATE	ELABORATE	DOS	AUG.2002	PI	ELABORATE	ELABORATE	ELABORATE	REV.	DATE	P.O.I.F	PREP.	CHK.	APP.	<table><tr><td>REV.</td><td>DESCRIPTION</td><td>CHECKED</td><td>REV.</td><td>APPR.</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>						REV.	DESCRIPTION	CHECKED	REV.	APPR.					
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REV.	DATE	P.O.I.F	PREP.	CHK.	APP.																																														
REV.	DESCRIPTION	CHECKED	REV.	APPR.																																															
PROJECT NAME: BINKA OILFIELD DEVELOPMENT GENERAL						<div>اصل و کپیله این نقشه و کلیه اطلاعات و غیره مربوط به شرکت با این دفتر همکاری می باشد.</div> <div>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS</div>																																													
PROJECT NO.: 971020						<div></div>																																													
EPC CONTRACTOR:						EPD/EPC CONTRACTOR (GC):																																													
<div><div></div><div>HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES</div></div>						<div><div></div><div>PETROIRAN DEVELOPMENT COMPANY</div></div>						BINKA OILFIELD DEVELOPMENT GENERAL																																							
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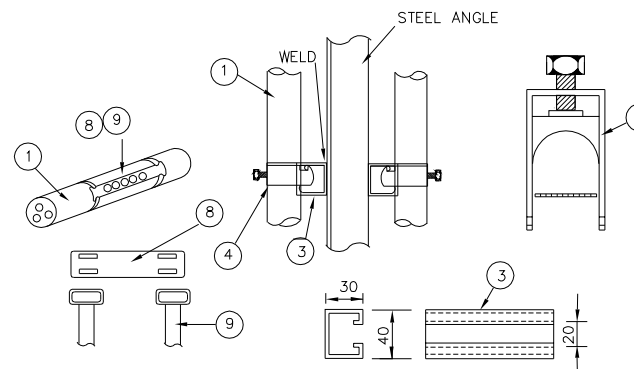


NOTES	
1-	ALL DIMENSIONS ARE IN MILLIMETERS.
2-	GLAND PLATE OR PANEL BOTTOM PLATE SHALL BE MADE OF NON-MAGNETIC MATERIAL WHERE SINGLE CORE CABLE IS THROUGH.
3-	THE LEAD COVER AND WIRE ARMOUR OF CABLES SHALL BE CONNECTED TO THE PERMANENT GROUNDING SYSTEM WITH SUITABLE SOLDERLESS PRESSURE TYPE CONDUCTORS.
4-	ALL CABLES IN THE VAULT SHALL BE SUPPORTED HORIZONTALLY AND/OR VERTICALLY.

LEGEND

REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAN






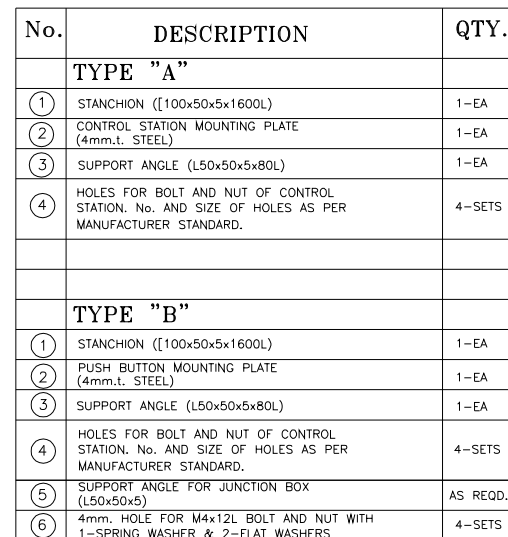
DETAIL "C"

DETAIL "B"

No.	DESCRIPTION	QTY.
①	POWER & CONTROL CABLE	
②	CABLE TRAY	
③	UNISTRUT CHANNEL	
④	UNISTRUT CLAMP	
⑤	TRAY SUPPORT	
⑥	CABLE SUPPORT (L-50x50x6)	
⑦	STEEL PLATE 4.5 thk.	
⑧	CABLE ID NUMBER TAG PLATE	
⑨	FIXING TIE	
⑩	MASONRY ANCHOR	
⑪	NON-HARDENING SEALING COMPOUND	
⑫	TERMINATION KIT	
⑬	CABLE GLAND	
⑭	GLAND PLATE	

CABLE ROOM

<table><tr><td>DOS</td><td>OCT.2022</td><td>PI</td><td>SALAHUDDIN</td><td>YUSUFHAKIM</td><td>YUSUFHAKIM</td><td colspan="6"></td></tr><tr><td>DOR</td><td>NOV.2021</td><td>UPI</td><td>SALAHUDDIN</td><td>YUSUFHAKIM</td><td>YUSUFHAKIM</td><td colspan="6"></td></tr><tr><td>DOI</td><td>OCT.2021</td><td>UPI</td><td>SALAHUDDIN</td><td>YUSUFHAKIM</td><td>YUSUFHAKIM</td><td colspan="6"></td></tr><tr><td>DOD</td><td>AUG.2021</td><td>UPI</td><td>MACHMUDHAKIM</td><td>YUSUFHAKIM</td><td>SALIHULHAKIM</td><td colspan="6"></td></tr><tr><td>REV.</td><td>DATE</td><td>P.O.I.f</td><td>PREP.</td><td>CHK.</td><td>APP.</td><td>AUT.</td><td colspan="6"></td></tr></table>						DOS	OCT.2022	PI	SALAHUDDIN	YUSUFHAKIM	YUSUFHAKIM							DOR	NOV.2021	UPI	SALAHUDDIN	YUSUFHAKIM	YUSUFHAKIM							DOI	OCT.2021	UPI	SALAHUDDIN	YUSUFHAKIM	YUSUFHAKIM							DOD	AUG.2021	UPI	MACHMUDHAKIM	YUSUFHAKIM	SALIHULHAKIM							REV.	DATE	P.O.I.f	PREP.	CHK.	APP.	AUT.							<table><tr><td colspan="2"></td><td colspan="2">*****</td><td colspan="2">BY</td><td colspan="2">DATE</td><td colspan="2">BY</td><td colspan="2">DATE</td></tr><tr><td colspan="2">REV.</td><td colspan="2">DESCRIPTION</td><td colspan="2">CHECKED</td><td colspan="2">REV. APPR.</td><td colspan="4"></td></tr><tr><td colspan="12">أمر و كيفية ائتمار هذه و تركه على اقلية ماله غير مائلان غير جنوب مائلان</td></tr><tr><td colspan="12">THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREON ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS</td></tr></table>												*****		BY		DATE		BY		DATE		REV.		DESCRIPTION		CHECKED		REV. APPR.						أمر و كيفية ائتمار هذه و تركه على اقلية ماله غير مائلان غير جنوب مائلان												THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREON ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS											
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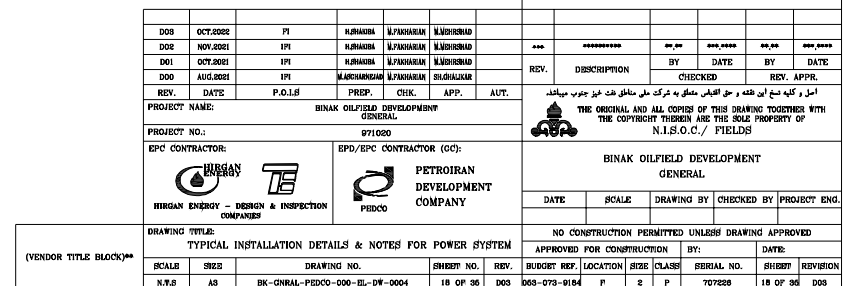


- | NOTES |
|---|
| 1- AFTER THE STEEL WORK HAS BEEN FINISHED
IT SHALL BE RUST PROOFED AND FINISH PAINTED.
2- ALL SHARP EDGES AND BURRS TO BE REMOVED.
3- ALL SIZES OF THE MOUNTING PLATE SHALL
BE SPECIFIED ACCORDING TO CONTROL
STATION VENDOR DRAWING.
4- NAME PLATE IS INSTALLED ON CONTROL
STATION BY MANUFACTURER. |

LEGEND

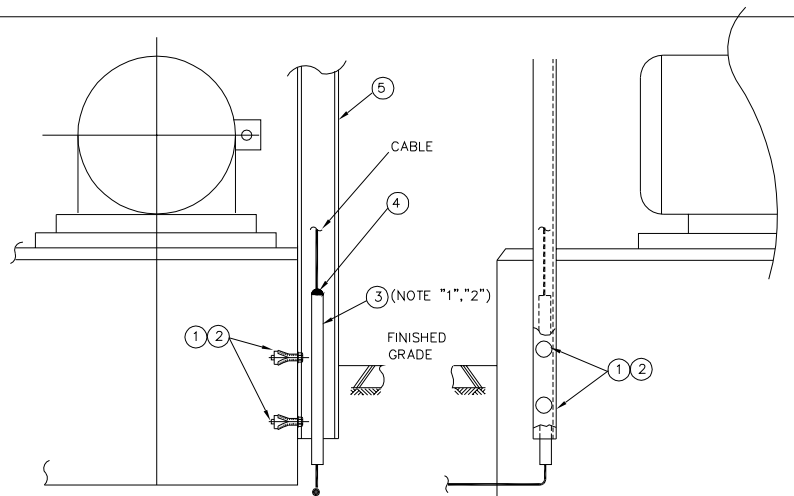
REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAN

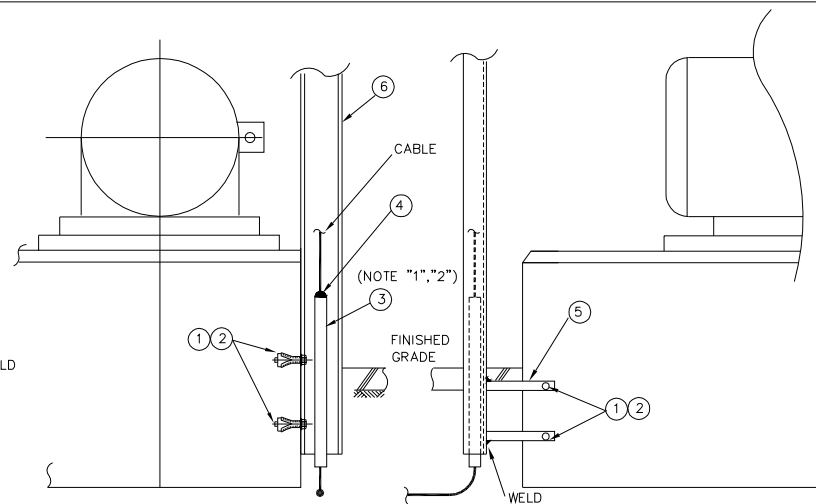


STANCHION FOR CONTROL STATION

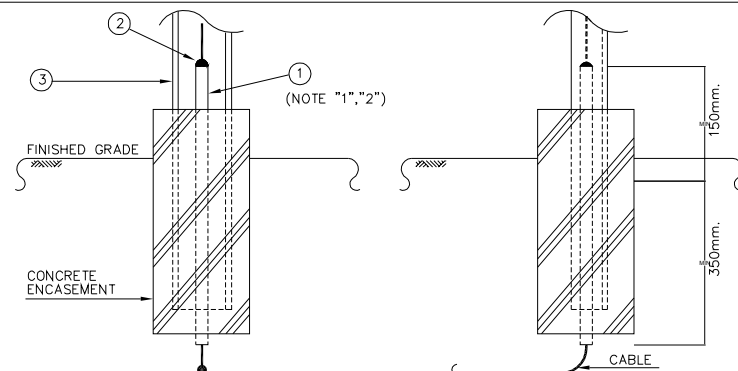
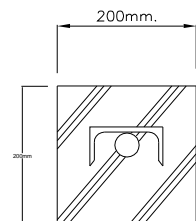
A schematic diagram of a motor assembly. A rectangular frame contains a central component labeled "MOTOR". To the right of the motor, a bracket is shown with two callout circles labeled "1" and "2" pointing to its ends.



A schematic diagram of the motor assembly. A large rectangular component labeled "MOTOR" is shown. Below it, a horizontal line represents the "FIELD ADJUST" mechanism. To the right, a vertical line represents the "WELD" point. A small circular component labeled "1" is shown at the intersection of the horizontal and vertical lines. A label "2" points to the vertical line. A label "5" points to the horizontal line. A label "WELD" points to the vertical line.



FREE STANDING



INSTALLATION OF STANCHION FOR CONTROL STATION





No.	DESCRIPTION	QTY.
	TYPE "A"	
①	MASONRY ANCHOR, WITHOUT STUD (SIZE : M10)	2-EA
②	M10x25L, BOLT WITH 1-SPRING & 1-FLAT WASHER FOR MASONRY ANCHOR	2-EA
③	RIGID STEEL CONDUIT	1-EA
④	NON HARDENING SEALING COMPOUND	AS REQD.
⑤	STANCHION([80x45x6L)	1-EA
	TYPE "B"	
①	MASONRY ANCHOR, WITHOUT STUD (SIZE : M10)	2-EA
②	M10x25L, BOLT WITH 1-SPRING & 1-FLAT WASHER FOR MASONRY ANCHOR	2-EA
③	RIGID STEEL CONDUIT	1-EA
④	NON HARDENING SEALING COMPOUND	AS REQD.
⑤	SUPPORT (L 50x50x5t)	2-SETS
⑥	STANCHION([80x45x6L)	1-EA
	TYPE "C"	
①	RIGID STEEL CONDUIT	1-EA
②	NON HARDENING SEALING COMPOUND	AS REQD.
③	STANCHION([80x45x6L)	1-EA

- 1- ENDS OF RIGID STEEL CONDUIT TO BE REAMED FREE OF ALL BURRS.
- 2- FOR STUB-UP OF RIGID STEEL CONDUIT AT GRADE. REFER TO SHT. 07.

REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-BL-200

اصل و کاپیہ نسخ این نقشہ و حق اقبالی متعلق بہ شرکت ملی مناطق نفت خیز جنوب، مہربادہ




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D09	OCT.2002	PI	ALHABIA	MUSABIAN	MUSABIAN															
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EPC CONTRACTOR:							EPD/EPC CONTRACTOR (GC):													
 														PETROIRAN DEVELOPMENT COMPANY						
HIRAS ENERGY - DESIGN & INSPECTION COMPANIES							PEDCO							BINAK OILFIELD DEVELOPMENT GENERAL						
DATE							SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.							
DRAWING TITLE:																				
TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM																				
ISCAL	SR2S	DRAWING NO.				ISHEET NO.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHIPPED	REVISION							
N.T.S	AS	BK-ENGRG-PEDCO-000-EE-DC-0004				19 OF 35	003	003-073-0104	"	2	P	707228	18 OF 35	D05						

FOR : 1KV PVC/LC/SWA/PVC				
No. OF CORE	CONDUCTOR SIZE (sq.mm.)	OVERALL DIA. (mm.)	THREAD SIZE ISO (IEC423)	REMARK
1	630	50	M50	
1	800	55	M63	
1	1000	60	M63	
2	2.5	17.7	M20	
2	4	19.6	M25	
2	6	21	M25	
2	10	24.5	M25	
2	16	26.5	M32	
2	25	30	M32	
2	35	34	M40	
2	50	31.5	M32	
2	70	34	M40	
2	95	38	M40	
2	120	41.5	M50	
2	150	45	M50	
2	185	49	M50	
2	240	55	M63	
3	2.5	18.3	M20	

FOR : 1KV PVC/LC/SWA/PVC				
No. OF CORE	CONDUCTOR SIZE (sq.mm.)	OVERALL DIA. (mm.)	THREAD SIZE ISO (IEC423)	REMARK
3	4	20.5	M25	
3	6	23	M25	
3	10	25.5	M25	
3	16	27.5	M32	
3	25	31.5	M32	
3	35	35	M40	
3	50	35	M40	
3	70	38	M40	
3	95	44	M50	
3	120	47.5	M50	
3	150	51	M50	
3	185	57	M63	
3	240	63	M63	
4	2.5	19.3	M25	
4	4	23	M25	
4	6	24.5	M25	
4	10	27	M32	
4	16	29.5	M32	
4	25	35	M40	
4	35	39	M40	
4	50	39	M40	
4	70	44	M50	
4	95	50	M50	
4	120	55	M63	
4	150	58	M63	
4	185	62	M63	
4	240	73	M75	
5	2.5	21	M25	
5	4	24	M25	
7	2.5	23	M25	
7	4	27	M32	
12	2.5	28	M32	
12	4	34	M40	
24	2.5	36	M40	

NOTES	
1- CABLE TYPES ARE AS FOLLOWING: 20KV XLPE/LC/SWA/PVC 10KV XLPE/LC/SWA/PVC 6KV XLPE/LC/SWA/PVC 1KV XLPE/LC/SWA/PVC 1KV XLPE/LC/SWA/PVC 2- CABLE GLAND TYPE (BS6121) OUTDOOR E1W Exd E2WF OUTDOOR A1/A2	
LEGEND	
REFERENCE DRAWING	DIRC. No.
POWER INSTALLATION DETAIL OUTDOORY 200	IPS-D-BL-200
KEY PLAN	

D09	OCT.2002	I/I	AJMANA	MUSHAHAB	MUSHAHAB	
D0E	NOV.2001	I/I	AJMANA	MUSHAHAB	MUSHAHAB	
D0I	OCT.2001	I/I	AJMANA	MUSHAHAB	MUSHAHAB	
D0D	AUG.2001	I/I	MUSHAHAB	SALWAH	SALWAH	
REV.	DATE	P.O.I.F	PREP.	CHEK.	APP.	AUT.
PRO/ECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL						
PRO/ECT NO.: 971000						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 						
BIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO			
BINAK OILFIELD DEVELOPMENT GENERAL						
DATE		SCALE		DRAWING BY		CHECKED BY PROJECT E
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION				BY:		DATE:
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
003-073-0164	F	2	P	707228	21	OF 30 DGS

CABLE GLAND SELECTION CHART

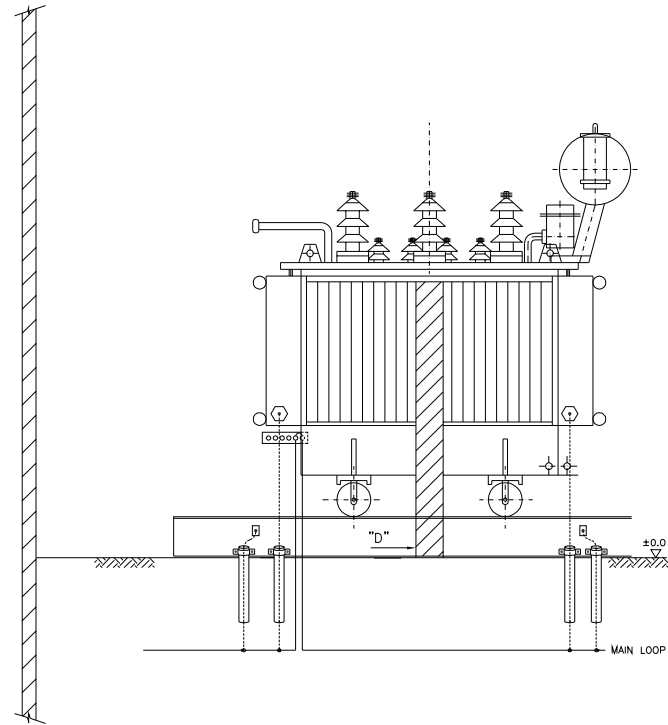
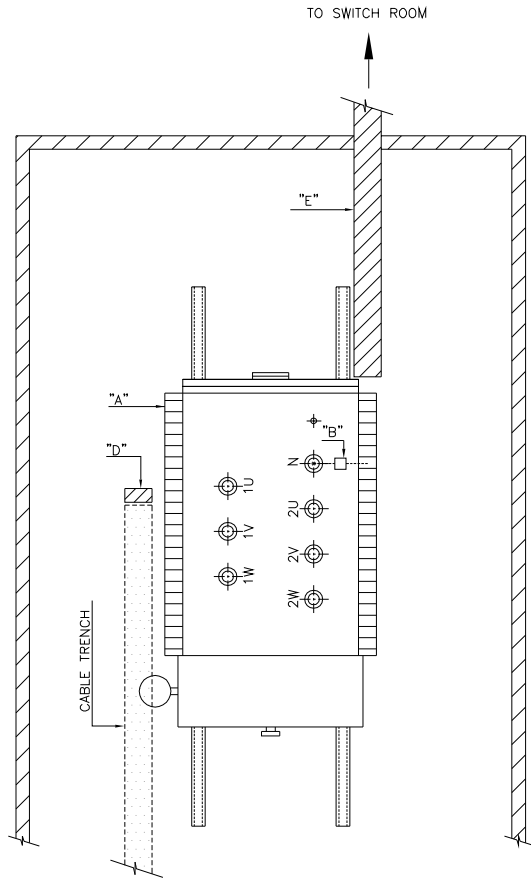


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


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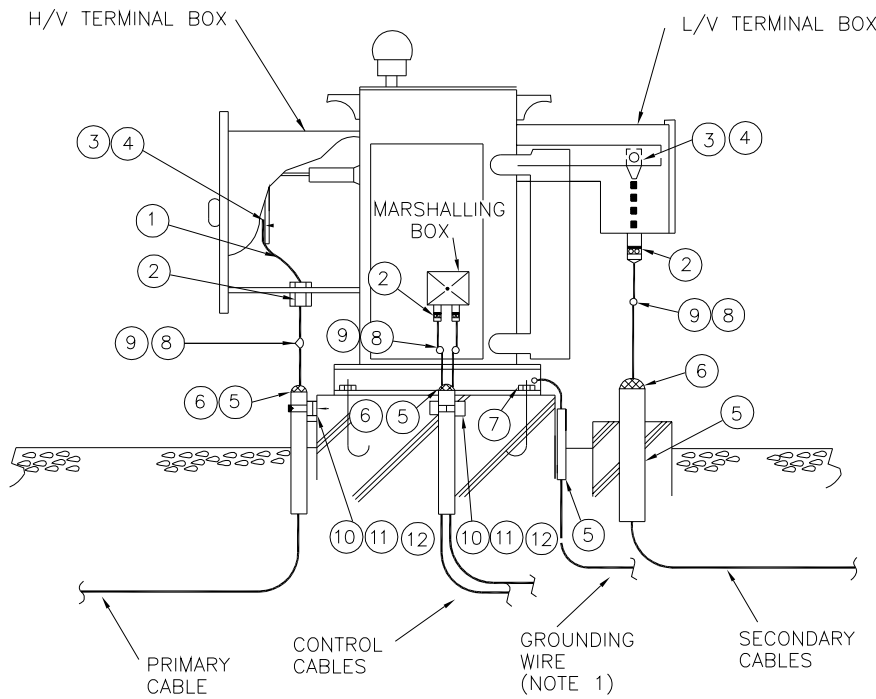
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ITEM	DESCRIPTION	QTY.	REMARKS
A	TRANSFORMER	1	
B	CURRENT TRANSFORMER	1	
C	EARTHING CABLE STRANDED COPPER CONDUCTOR YELLOW/GREEN PVC SHEATHED (70mm ²)	AS REQ.	
D	HV CABLE TRAY	AS REQ.	
E	LV CABLE TRAY	AS REQ.	
F	EARTH BAR	1	
G	2" HOT DIP GALVANIZED CONDUIT	AS REQ.	

TRANSFORMER CONNECTION (TYPICAL)

NOTES									
LEGEND									
REFERENCE DRAWING					DRG. No.				
POWER INSTALLATION DETAIL CATALOG 200					IPS-D-EL-200				
KEY PLAN									
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DOE	NOV/2021	PI	ALHAGHA	ALFADHAR	ALJUDHAI				
DOI	07/2021	PI	ALHAGHA	ALFADHAR	ALJUDHAI				
DDO	AUG/2021	PI	ALHAGHA	ALFADHAR	ALJUDHAI				
REV.	DATE	P.O.I.F	PREP.	CHK.	APP.	AUT.			
PROJECT NAME:						BINAQ OILFIELD DEVELOPMENT GENERAL			
PROJECT NO.:						971020			
EPC CONTRACTOR:						EPD/EPC CONTRACTOR (GC):			
 									
HIRAN ENERGY - DESIGN & INSPECTION COMPANIES						PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE:						TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM			
SCALE:						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
SHEET NO.						APPROVED FOR CONSTRUCTION BY:			
REV.						DATE:			
BUDGET REF.						THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS			
LOCATION						BINAQ OILFIELD DEVELOPMENT GENERAL			
SIZE						DATE			
CLASS						SCALE			
SERIAL NO.						DRAWING BY			
SHEET						CHECKED BY			
REVISION						PROJECT ENG.			
N.B.						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
AS						APPROVED FOR CONSTRUCTION BY:			
BK-GHRAA-PEDCO-000-EL-DW-0004						DATE:			
23 OF 36						THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS			
D03						BINAQ OILFIELD DEVELOPMENT GENERAL			
003-073-0104						DATE			
P						SCALE			
2						DRAWING BY			
P						CHECKED BY			
707228						PROJECT ENG.			
23 OF 36						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
D03						APPROVED FOR CONSTRUCTION BY:			



Item	DESCRIPTION	QTY.	REMARKS
①	TERMINATION KIT	AS REQ.	
②	CABLE GLAND	AS REQ.	
③	TERMINAL LUG	AS REQ.	
④	BOLT, NUT & WASHER	AS REQ.	
⑤	RIGID STEEL CONDUIT PIPE	AS REQ.	
⑥	NON-HARDENING SEALING COMPOUND	AS REQ.	
⑦	ANCHOR BOLT	AS REQ.	
⑧	CABLE ID NUMBER TAG PLATE	AS REQ.	
⑨	FIXING TIE	AS REQ.	
⑩	UNISTRUT CLAMP	AS REQ.	
⑪	UNISTRUT CHANNEL	AS REQ.	
⑫	MASONRY ANCHOR (M8)	AS REQ.	

AROUND TRANSFORMER

DOD

OCT.2020

PI

MR. HADJIR

MR. FARHADI

MR. HADJIR

DOR

NOV.2021

PI

MR. HADJIR

MR. FARHADI

MR. HADJIR

DOI

OCT.2021

PI

MR. HADJIR

MR. FARHADI

MR. HADJIR

DDO

AUG.2021

PI

MR. HADJIR

MR. FARHADI

MR. HADJIR

REV.

DATE

P.O.I.F

PREP.

CHK.

APP.

AUT.

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT
GENERAL

PROJECT NO.:

971020

EPD CONTRACTOR:

HIRAN ENERGY

DESIGN & INSPECTION COMPANIES

TE

EPD/EPC CONTRACTOR (GO):

PETROIRAN DEVELOPMENT COMPANY

PEDCO

DRAWING TITLE:

TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

REVISION

N/A

A3

BK-GHRAAL-PEDCO-000-EL-DW-0004

24 OF 36

D03

000-073-0104

P

2

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707228

24 OF 36

D03

NOTES

LEGEND

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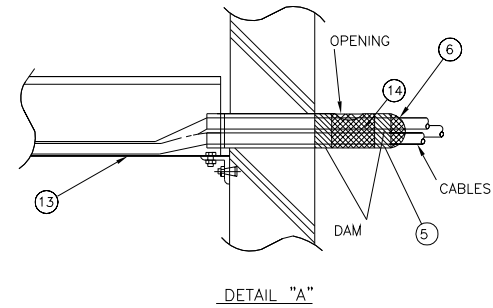
ERC. No.

POWER INSTALLATION DETAIL CATEGORY 200

IPS-D-EL-200

KEY PLAN

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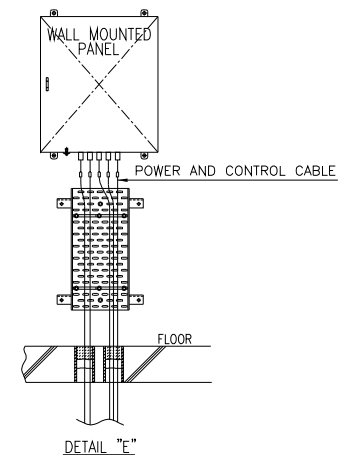
NOTES

LEGEND

REFERENCE DRAWING	DRC. No.
POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-BL-200

KEY PLAN

[illegible]



MCC/SWITCHGEAR INSTALLATION








NOTES

- 1- CABLES ON TRAY SHALL BE SUPPORTED USING FIXING TIE OR CABLE CLIP AT INTERVALS AS GIVEN BELOW.
MAX.600mm FOR HORIZONTAL CABLE RUN ON VERTICALLY MOUNTED TRAY
MAX.600mm FOR VERTICAL CABLE RUN ON VERTICALLY MOUNTED TRAY
MAX.1200mm FOR HORIZONTAL CABLE RUN ON HORIZONTALLY MOUNTED TRAY.
- 2- MEDIUM VOLTAGE CABLES, LOW VOLTAGE CABLES AND CONTROL CABLE SHALL BE INSTALLED ON SEPARATE CABLE TRAYS/LADDERS. THE SEPARATION DISTANCES SHALL BE AT LEAST 300 MM BETWEEN MEDIUM VOLTAGE CABLE AND CONTROL CABLE AND AT LEAST 300 MM BETWEEN LOW VOLTAGE POWER CABLE AND CONTROL CABLES.

LEGEND

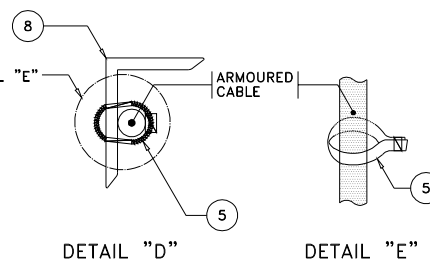
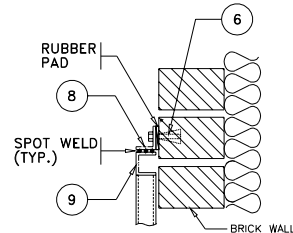
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POWER INSTALLATION DETAIL CATEGORY 200	IPS-D-EL-200

KEY PLAN

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DOS	OCT.2002	171	ALHAGRA	ALHAGRA	ALHAGRA																																																																																												
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL																																																																																																	
PROJECT NO.: 071020																																																																																																	
EPC CONTRACTOR:   HURGAN ENERGY - DESIGN & INSPECTION COMPANIES										EPC/CONTRACTOR (GC):  PETROIRAN DEVELOPMENT COMPANY																																																																																							
										BINAK OILFIELD DEVELOPMENT GENERAL																																																																																							
<table><tr><td>DATE</td><td>SCALE</td><td>DRAWING BY</td><td>CHECKED BY</td><td>PROJECT E</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>										DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT E						<table><tr><td colspan="5">NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED</td></tr><tr><td colspan="3">APPROVED FOR CONSTRUCTION</td><td colspan="2">BY:</td><td>DATE:</td></tr><tr><td>SHEET NO.</td><td>BUDGET REV.</td><td>LOCATION</td><td>SIZE</td><td>CLASS</td><td>SERIAL NO.</td></tr><tr><td>N.8</td><td>AS</td><td>BN-KNAL-PEDCO-000-EL-DF-0004</td><td>37 OF 36</td><td>DOS</td><td>003</td></tr><tr><td></td><td></td><td></td><td>363-073-9164</td><td>P</td><td>2</td></tr><tr><td></td><td></td><td></td><td></td><td>P</td><td>7</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>707228</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>27 OF 36</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>DOS</td></tr></table>										NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					APPROVED FOR CONSTRUCTION			BY:		DATE:	SHEET NO.	BUDGET REV.	LOCATION	SIZE	CLASS	SERIAL NO.	N.8	AS	BN-KNAL-PEDCO-000-EL-DF-0004	37 OF 36	DOS	003				363-073-9164	P	2					P	7						707228						27 OF 36						DOS															
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DRAWING TITLE: TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM																																																																																																	



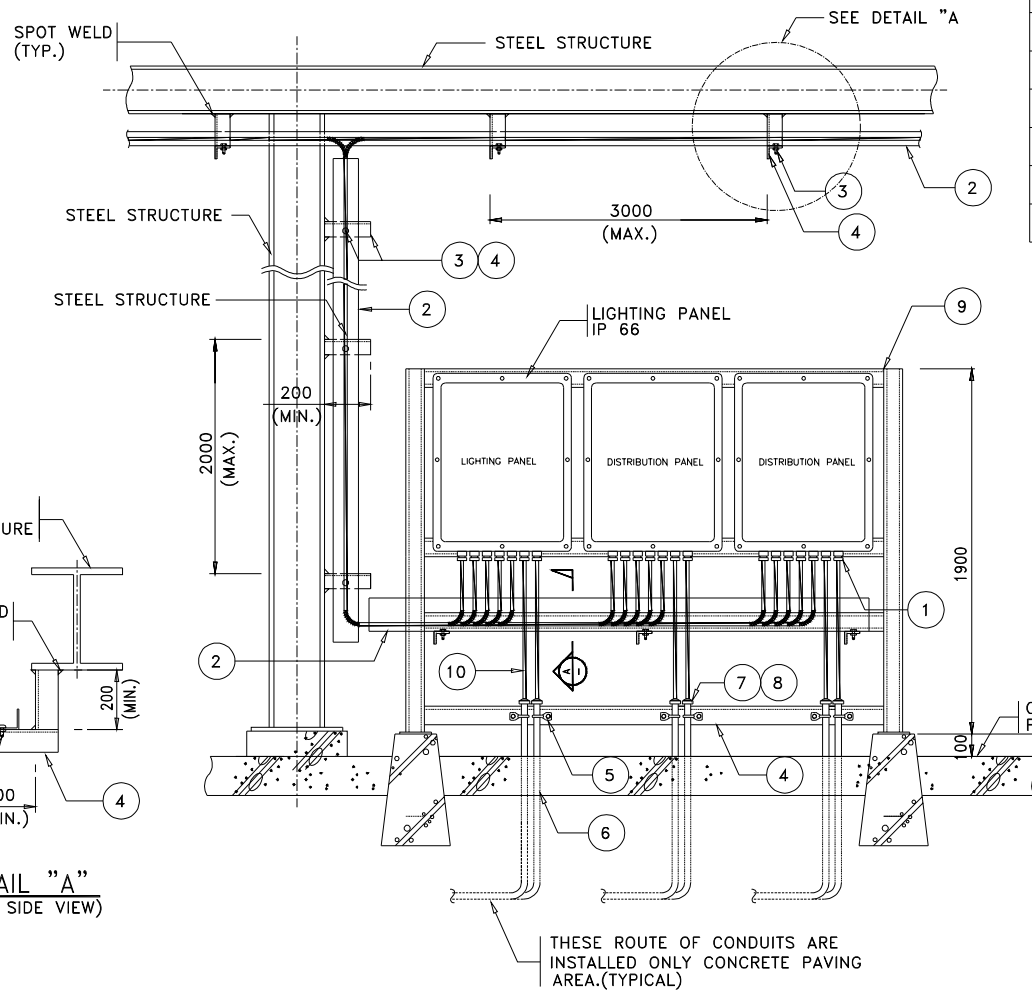
BILL OF MATERIAL				
NO.	UNIT	Q'TY	DESCRIPTION	REMARK
1	M	AS REQ'D	PERFORATED CABLE TRAY OR CABLE TRUNKING TRAY	
2	EA	AS REQ'D	STEEL PLATE W250x500x6THK	
3	EA	AS REQ'D	ARMoured CABLE GLAND FOR BATTERY ROOM CABLE AND NON ARMoured CABLE GLAND FOR OTHER ROOMS CABLE	
4	m	AS REQ'D	STEEL CHANNEL C50x50x3THK	
5	EA	AS REQ'D	CABLE TIE	
6	EA	AS REQ'D	SELF DRILLING EXPANSION ANCHOR HEX HEAD BOLT, M6x50L	
7	EA	AS REQ'D	ROUND HEAD BOLT M6x25L, WITH NUT / FLAT WASHER/LOCK WASHER	
8	m	AS REQ'D	STEEL ANGLE L50x50x5THK	
9	m	AS REQ'D	STEEL CHANNEL C100x50x5x6mm THK	
10	EA	AS REQ'D	SELF DRILLING EXPANSION ANCHOR HEX HEAD BOLT, M10x90L	
11	EA	AS REQ'D	HEX HEAD BOLT M10x35L, WITH NUT / FLAT WASHER/LOCK WASHER	
12	m	AS REQ'D	ARMoured CABLE FOR BATTERY ROOM, NON ARMoured CABLE FOR OTHER ROOMS	



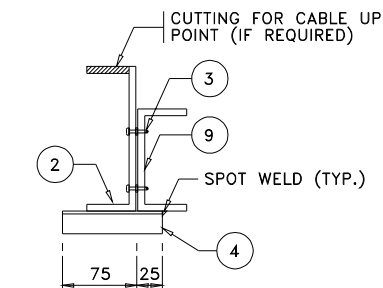
DETAIL "C"



SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION

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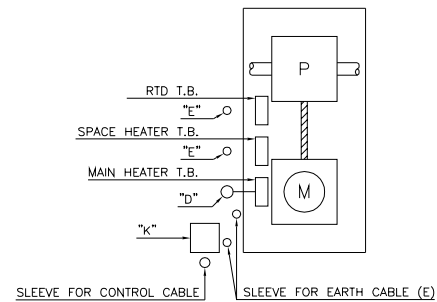


BILL OF MATERIAL				
NO.	UNIT	Q'TY	DESCRIPTION	REMARK
1	EA	AS REQ'D	ARMOURED CABLE GLAND	
2	m	AS REQ'D	PERFORATED CABLE TRAY 50mm HEIGHT	
3	EA	AS REQ'D	STAINLESS STEEL, M6x25L ROUND HEAD BOLT, NUT W/WASHER	
4	m	AS REQ'D	STEEL ANGLE L50x50x5THK	
5	EA	AS REQ'D	PIPE CLAMP	
6	m	AS REQ'D	HOT DIP GALVANIZED STEEL CONDUIT	
7	EA	AS REQ'D	BUSHING	
8	kg	AS REQ'D	SEALING COMPOUND	
9	m	AS REQ'D	STEEL CHANNEL C100x50x6x7.5mm THK	
10	m	AS REQ'D	ARMOURED CABLE	



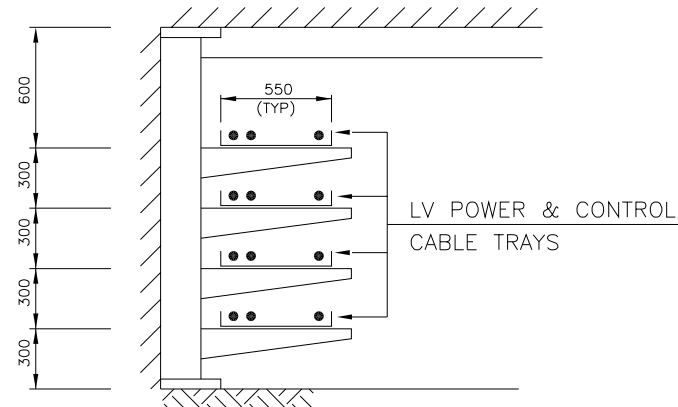
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DOO										AUG/2021									
PI										ALHARUNA									
U/FAHARUK										U/SHIRWAD									
REV.										DATE									
P.O.I.F										PREP.									
CHK.										APP.									
AUT.																			
PROJECT NAME:										BINAK OILFIELD DEVELOPMENT GENERAL									
PROJECT NO.:										971020									
EPC CONTRACTOR:										EPD/EPC CONTRACTOR (GC):									
																			
HIRAN ENERGY - DESIGN & INSPECTION COMPANIES										PETROIRAN DEVELOPMENT COMPANY									
DATE										SCALE									
DRAWING BY										CHECKED BY									
PROJECT ENG.																			
DRAWING TITLE:										NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM										APPROVED FOR CONSTRUCTION BY:									
BY:										DATE:									
BUDGET REF.										LOCATION									
SIZE										CLASS									
SERIAL NO.										SHEET									
REVISION																			
BK-CHRAAL-PEDCO-000-EL-DW-0004										28 OF 36									
D03										000-073-0104									
P										2									
P										707228									
28 OF 36										D03									




SURFACE MOUNTED PANEL LIGHTING/DISTRIBUTION



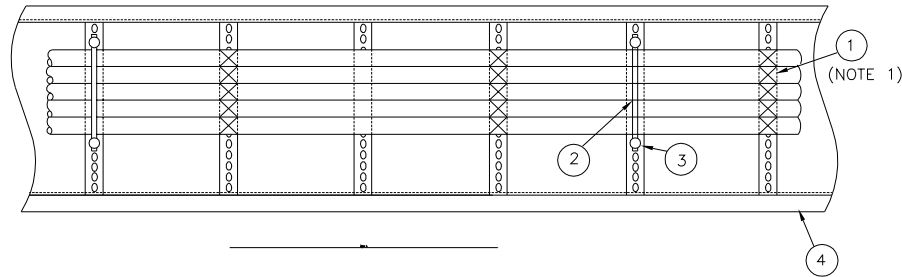
ITEM	DESCRIPTION	QTY.	REMARKS
A	CABLE TERMINATOR, CAST IRON, ZINC ELECTROPLATED PACKING TYPE CABLE GLAND	1	
B	CABLE TERMINATOR, CAST IRON, ZINC ELECTROPLATED PACKING TYPE CABLE GLAND	1	
C	STEEL CONDUIT, HDG, 1"	AS REQ	
D	STEEL CONDUIT, HDG, 2"	AS REQ	
E	BUSHING, MALLEABLE IRON, ZINC ELECTROPLATED, 1"	2	
F	BUSHING, MALLEABLE IRON, ZINC ELECTROPLATED, 2"	1	
G	EXPANSION ANCHOR, SELF DRILLING, 10MM DIAx60MM	L 2	
H	STRAP, STEEL, ELECTROPLATED, 1-HOLE TYPE, 2"	2	
J	STRAP, STEEL, ELECTROPLATED, 1-HOLE TYPE, 1"	1	
K	PUSH BUTTON STATION	1	

[illegible]



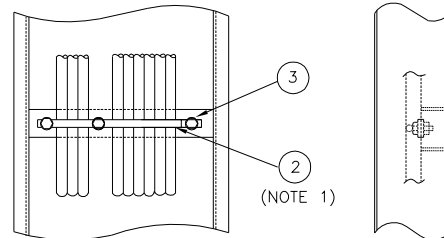
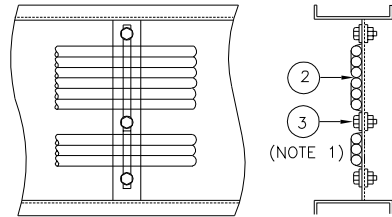
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DOS	NOV.2001	IFI	A.M.HADHA	M.FAHAMAN	M.WHODRAD						
DOS	QTY.2001	IFI	A.M.HADHA	M.FAHAMAN	M.WHODRAD						
DOS	AUG.2001	IFI	M.ACHACHMAN	M.FAHAMAN	S.BAGHDADI						
REV.	DATE	P.O.I.#	PREP.	CHK.	APP.	AUT.					
PROJECT NAME:											
BINAK OILFIELD DEVELOPMENT GENERAL											
PROJECT NO.:											
971080											
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):								
 IRISANY ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY 								
BINAK OILFIELD DEVELOPMENT GENERAL											
DATE		SCALE		DRAWING BY CHECKED BY PROJECT ENG.							
DRAWING TITLE:											
TYPICAL INSTALLATION DETAILS & NOTES FOR POWER SYSTEM											
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED											
APPROVED FOR CONSTRUCTION				BY:		DATE:					
#	SCALE	SHEET	DRAWING NO.	REVISION	HUBERT REF.	LOCATION	Z	CLASS	FERRAL NO.	(SHEET)	REVISED
N.T.S	A3	BK-CHNARL-PIDCO-000-EL-DW-0004	54 OF 36	003	603-073-9184	I	2	P	707228	34 OF 36	003

LADDER TYPE CABLE TRAY

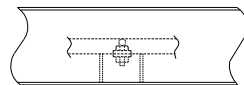


1) VERTICALLY TRAY MOUNTED.
HORIZONTAL CABLE RUN

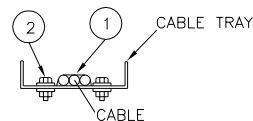
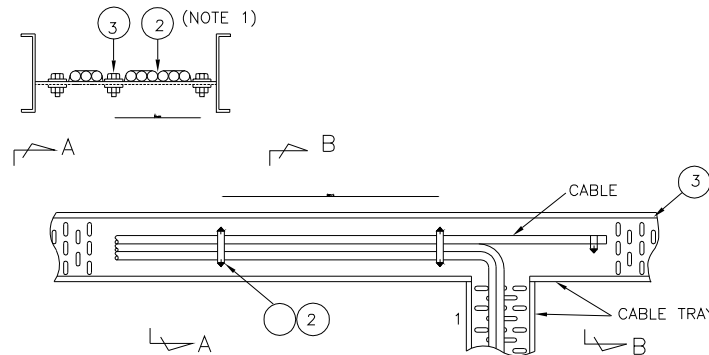
2) VERTICALLY TRAY MOUNTED.
VERTICAL CABLE RUN



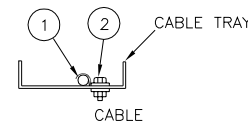
3) HORIZONTALLY TRAY MOUNTED.
HORIZONTAL CABLE RUN



PERFORATED TYPE CABLE TRAY



SECTION A-A



SECTION B-B

CABLE FIXING ON CABLE TRAY

TYPE "A"			
No.	DESCRIPTION	QTY.	REMARKS
①	CABLE FIXING TIE (BLACK COLOR NYLON)	AS REQ.	
②	CABLE CLIP (SUS OR AL STRIP WITH PVC SKIN)	AS REQ.	
③	BOLT AND NUT WITH 1-SPRING-2-FLAT WASHERS (SUS) SIZE : M6x 20L	AS REQ.	
④	CABLE TRAY, HOT DIP GALVANIZED	AS REQ.	
TYPE "B"			
No.	DESCRIPTION	QTY.	REMARKS
①	CABLE CLIP (SUS OR AL STRIP WITH PVC SKIN)	AS REQ.	
②	BOLT AND NUT WITH 1-SPRING-2-FLAT WASHERS (SUS) SIZE : M6x 20L	AS REQ.	
③	PERFORATED TRAY, HOT DIP GALVANIZED	AS REQ.	

NOTES

- 1- CABLES ON TRAY SHALL BE SUPPORTED USING FIXING TIE OR CABLE CLIP AT INTERVALS AS GIVEN BELOW.
MAX.600mm FOR HORIZONTAL CABLE RUN ON VERTICALLY MOUNTED TRAY
MAX.600mm FOR VERTICAL CABLE RUN ON VERTICALLY MOUNTED TRAY
MAX.1200mm FOR HORIZONTAL CABLE RUN ON HORIZONTALLY MOUNTED TRAY.
- 2- MEDIUM VOLTAGE CABLES, LOW VOLTAGE CABLES AND CONTROL CABLE SHALL BE INSTALLED ON SEPARATE CABLE TRAYS/LADDERS. THE SEPARATION DISTANCES SHALL BE LEAST 300 MM BETWEEN MEDIUM VOLTAGE CABLE AND CONTROL CABLE AND AT LEAST 300 MM BETWEEN LOW VOLTAGE POWER CABLE AND CONTROL CABLES.

LEGEND

REFERENCE DRAWING	DRG. No.
POWER INSTALLATION DETAIL, CATEGORY 200	IPS-D-EL-200

KEY PLAN

REV.	DATE	DESCRIPTION	BY	CHECKED	DATE	BY	DATE
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