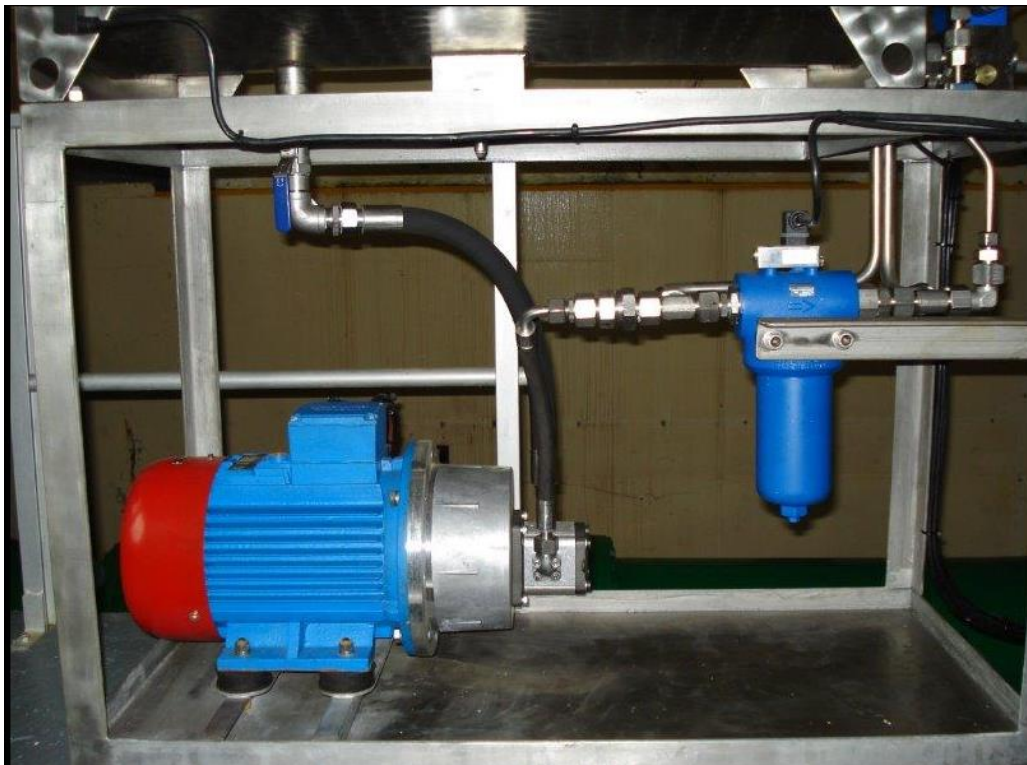
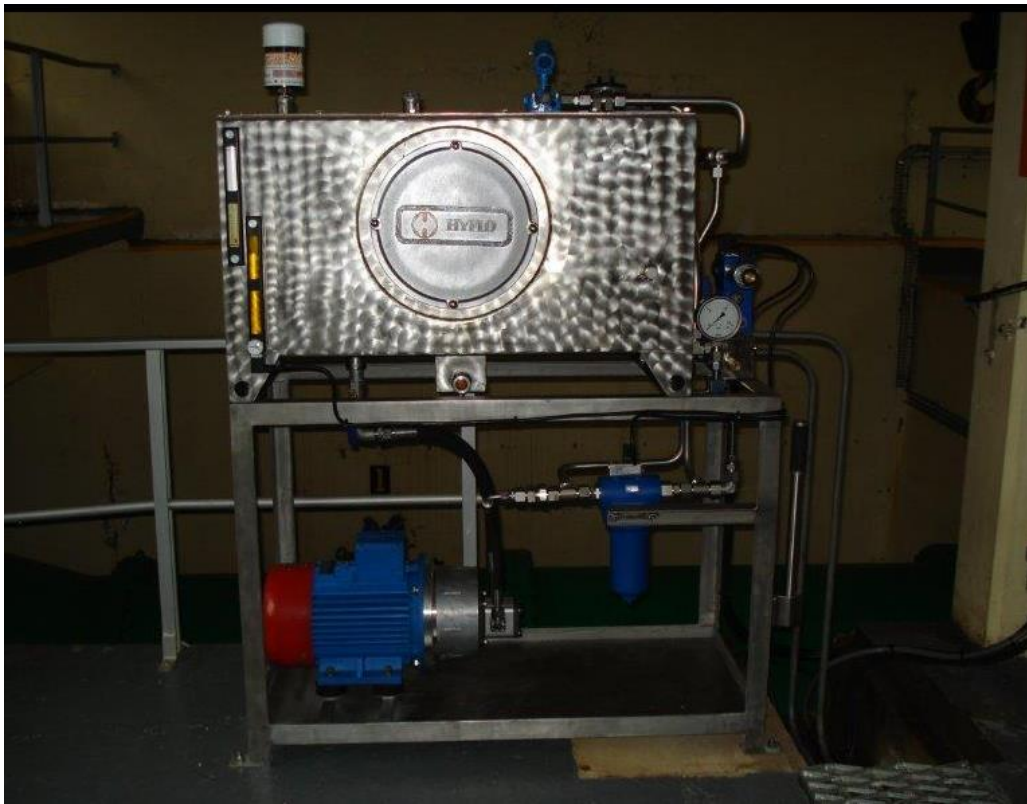
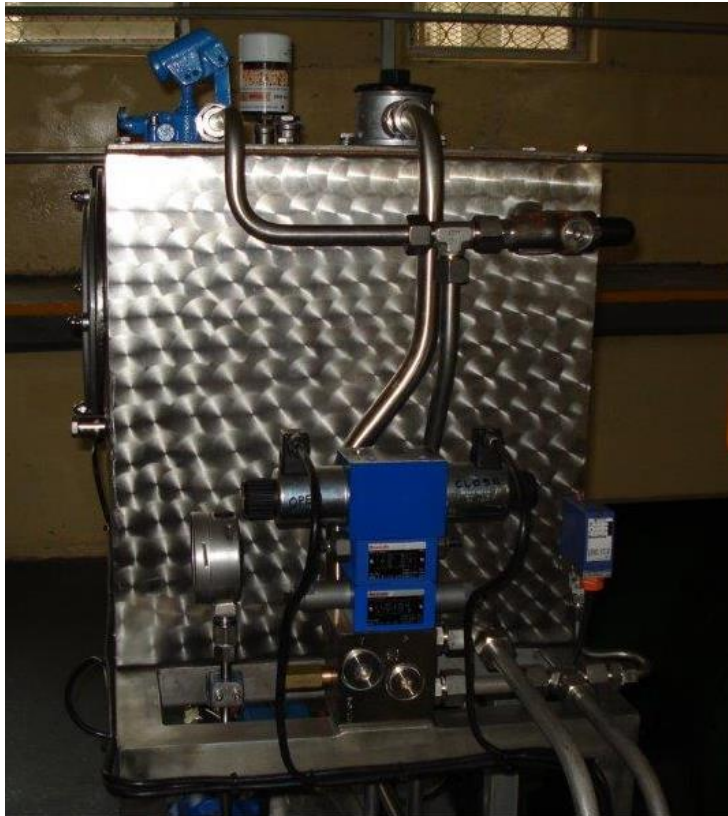


APPENDIX B

Goedertrouw Outlet Control room : Hydraulic power pack





Goedertrouw dam: Tower Hydraulic power pack





18

85 Goodwood Rd, Mahogany Ridge, Westmead, KZN
PO Box 544, Gillmits, 3603, KZN, South Africa
Tel.: (031) 700 9011 Fax: (031) 700 8632
E-mail: berndt@fluidtronik.co.za

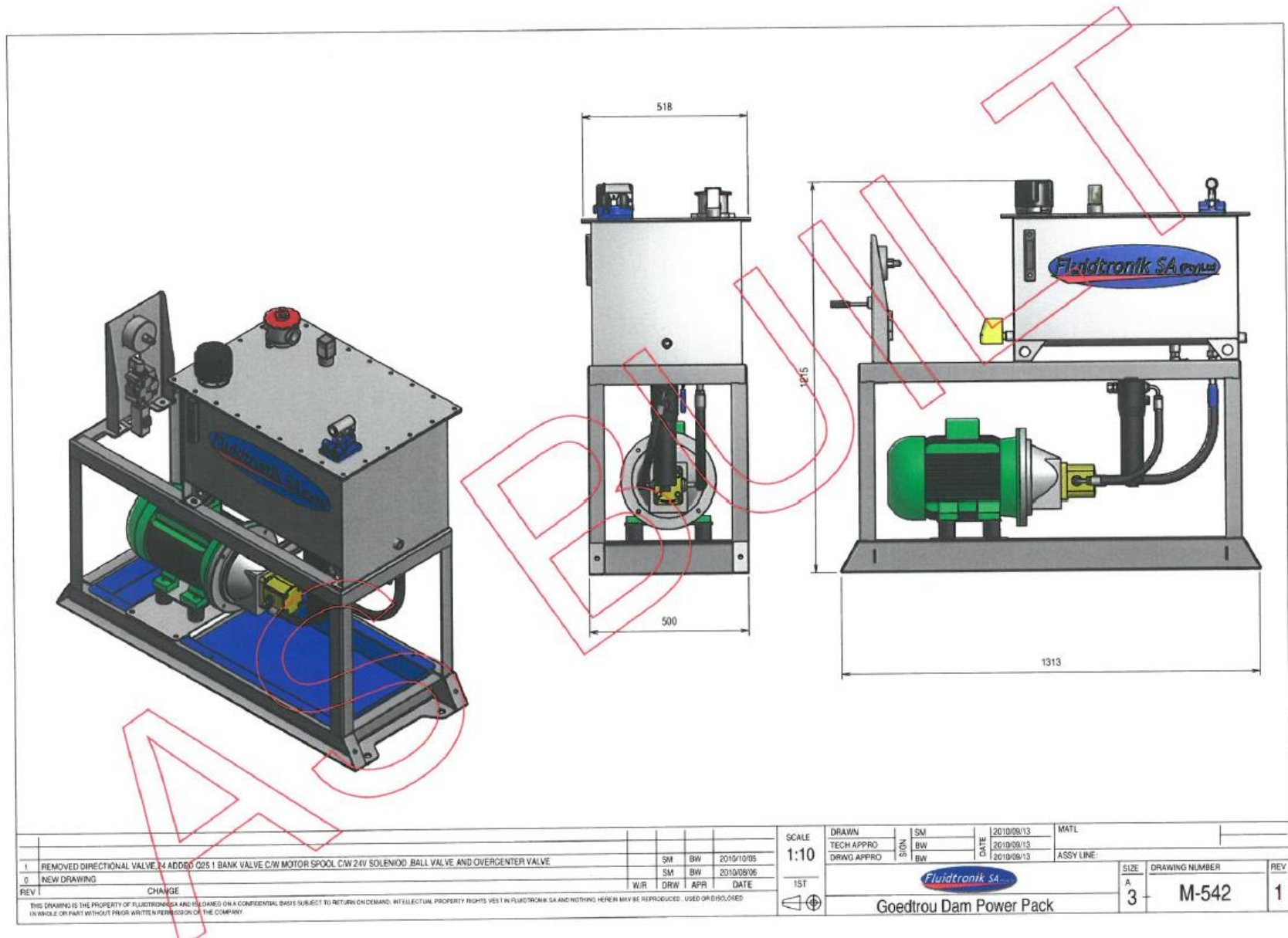
Reg No: 1998/011408/07
Vat No: 4930227865

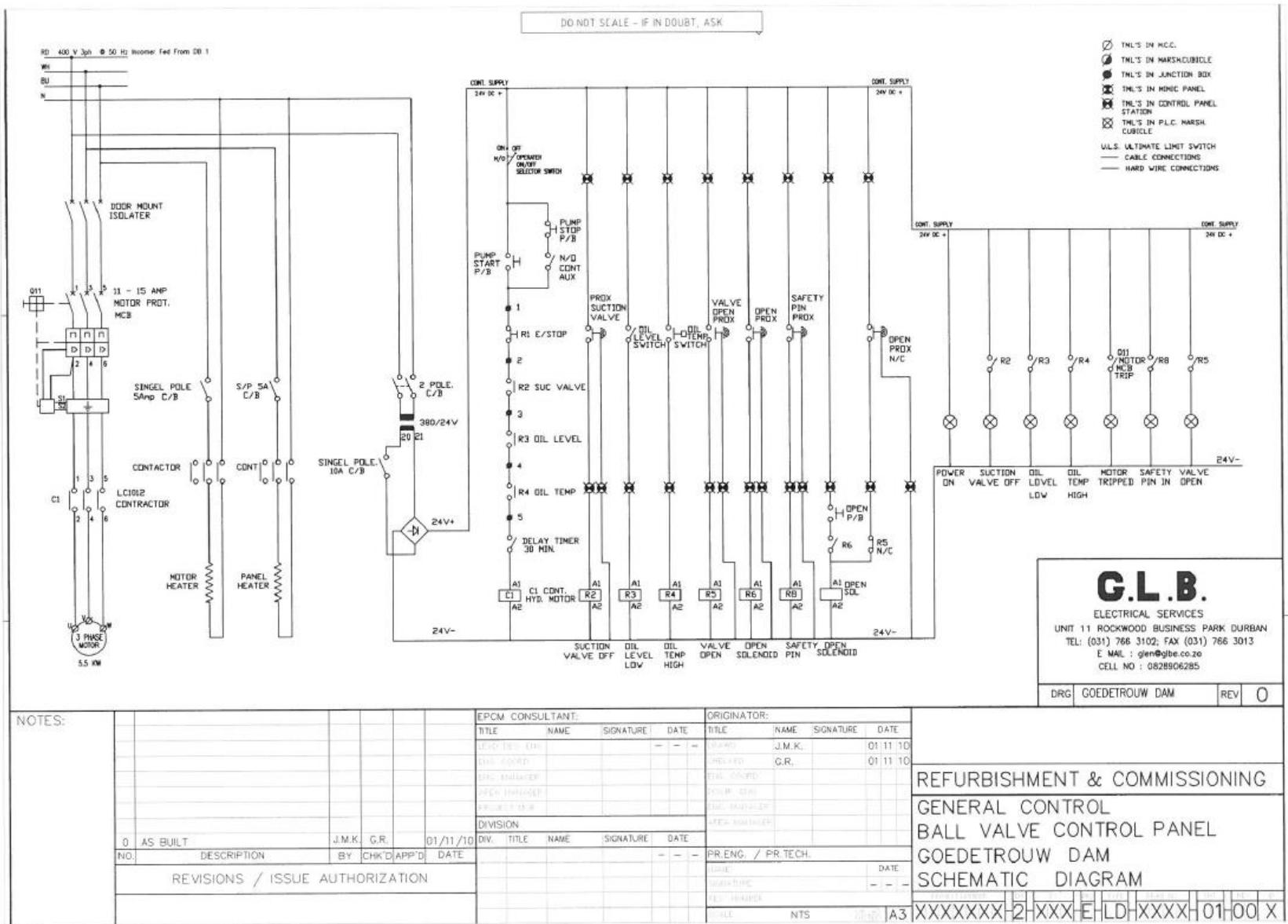
INNOVATIVE HYDRAULIC SOLUTIONS

EQUIPMENT LIST:
Goedetrouw Dam Ball Valve Hydraulic System

DWG NO.:	HC-110	JOB NO.:	2050/390	
REV:	1	DATE:	2010-09-06	
CUSTOMER:	ROTEK / DWAF			
ITEM	DESCRIPTION	PART NO.	QTY	MANUFACTURER
1	TANK, 100L	M-524	1	FLUIDTRONIK S.A.
1.2	SUCTION BALL VALVE	VN2000-G3/4"	1	INTEVA
1.2.1	PROXIMITY SWITCH	PKS/OP-1H	1	
1.3	LEVEL/TEMP GLASS	LIT-2	1	MINTOR
1.4	TEMPERATURE SWITCH	RAK82.4 15-95	1	SAUTER
1.5	LEVEL SWITCH	FLGSB-250SPD	1	(HST)
1.6	TRAP BREATHER	P564669	1	DONALDSON
1.6.1	TRAP BREATHER/STRAINER ADAPTER	M-553	1	FLUIDTRONIK S.A.
1.6.2	STRAINER	STR702M90	1	MP FILTRI
1.7	RETURN FILTER, 10µm	FIK040812	1	DONALDSON
1.7.1	REPLACEMENT ELEMENT, 10µm	P171531	1	DONALDSON
1.7.2	RETURN FILTER ELEC INDICATOR	P171966	1	DONALDSON
1.8	DRAIN VALVE	VN2000-G3/8"	1	INTEVA
1.9	HAND PUMP	CS45	1	GALTECH
2	ELECTRIC MOTOR	5.5kW, 380V, 4 POLE	1	WEG
3	BELL HOUSING	L2302	1	MP FILTRI
3.1	COUPLING SET	G382	1	MP FILTRI
4	HYDRAULIC GEAR PUMP, 11cc/rev	SP2A11DE10G	1	GALTECH
5	PRESSURE FILTER, 9µm	FPK027183	1	DONALDSON
5.1	REPLACEMENT ELEMENT, 9µm	P165043	1	DONALDSON
5.2	ELECTRICAL INDICATOR	P171947	1	DONALDSON
6	CHECK VALVE	RHD12-L	1	CAST
7	PRESSURE GAUGE	0-250 BAR, 100MM	1	S.A. GAUGE
8	Q25 1 BANK VALVE C/W MOTOR SPOOL C/W CW 24V	SQ9030S111/A1D4	1	GALTECH
9	DOUBLE OVER CENTER VALVE	FPOB-D-3/8-L-35	1	FLUIDPRESS
10	PROXIMITY SWITCH	PKS/OP-1H	2	
11	CYLINDER		1	CUSTOMER SUPPLY
12	HIGH PRESSURE BALL VALVE	302-0202	1	INTEVA
13	MINIMESS TEST POINT	CSHS12-L	2	CAST

Directors: Heinz von Fintel, Berndt Wichmann, Greg Daniels





Hluhluwe dam: Outlet control room: Hydraulic power pack in.



Ntshingwayo dam: River outlet: Hydraulic power pack



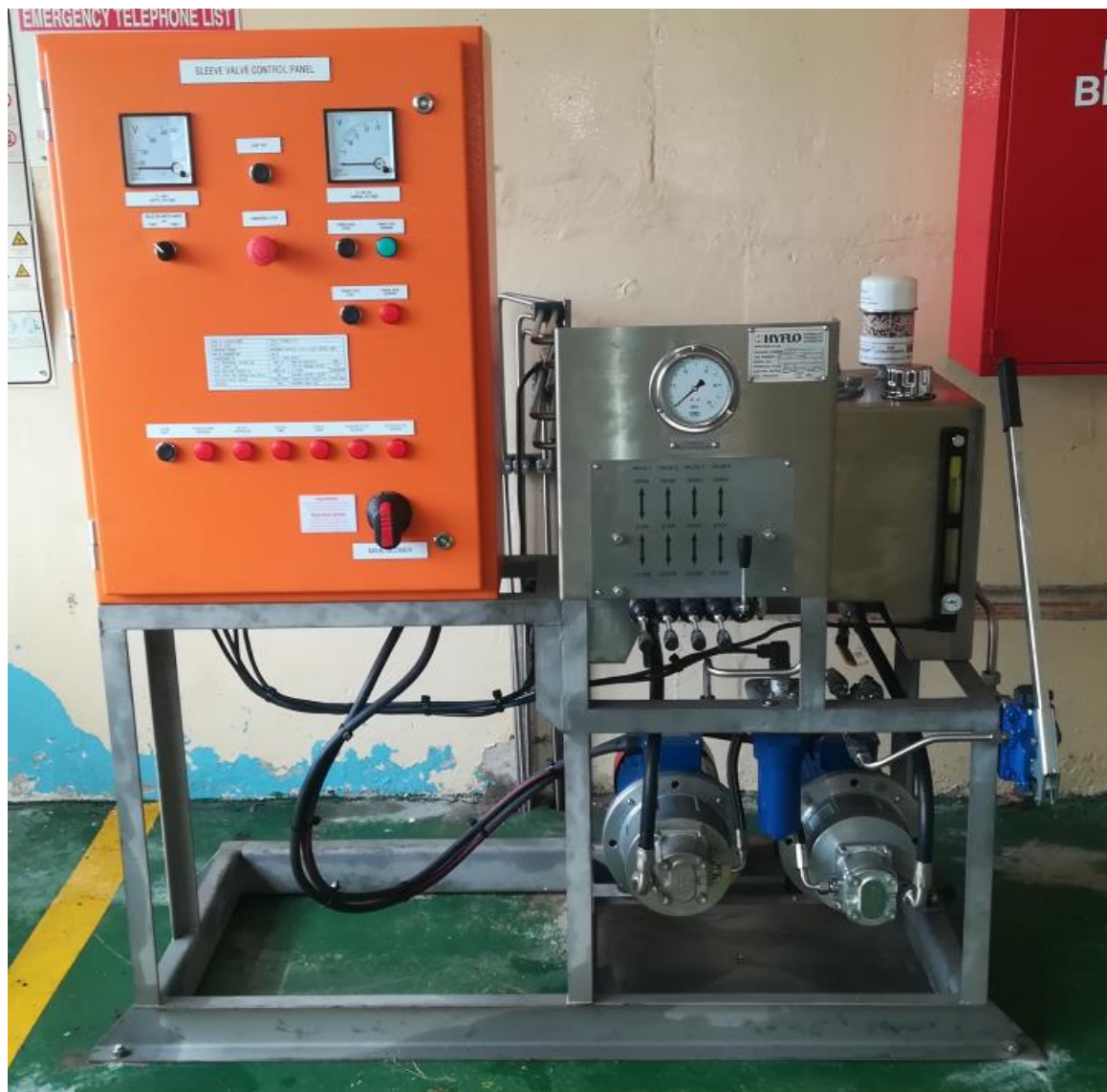


Ntshingwayo dam: Radial gates Mobile diesel driven hydraulic unit





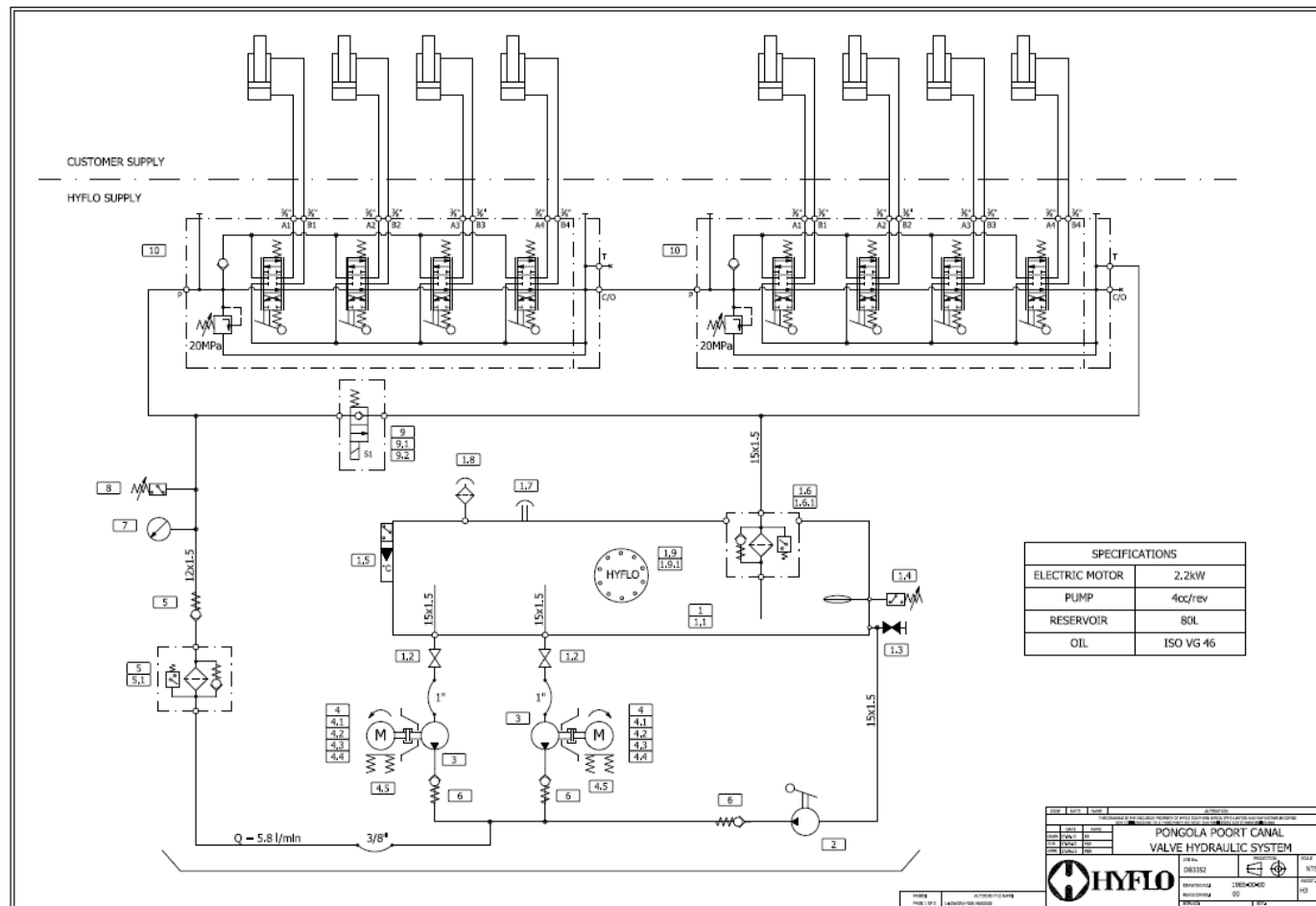
Spioenkop dam: Outlet control room: Hydraulic power pack



Pongolapoort dam: Canal outlet Hydraulic power pack







Customer Ref.: MVELO / DIRK		Equipment List	Job No.: DB3352		
Customer: D.W.A			Group Dwg. No.: 1985-00-00		
Project: Pongolapoort Canal Outlet Powerpack			Issue: 00		Page 2 of 3
Item	Description	Part Number	Qty.	Manufacturer	Remarks
1	STAINLESS STEEL TANK 80L	SS TANK 80L	1	PINION & ADAMS	
1.1	STAINLESS STEEL FRAME & DRIP TRAY	SS FRAME	1	HYFLO	
1.2	BALL VALVE 1" SS L/P	KH-G1"	2	PH	
1.3	BALL VALVE 1/2" SS L/P	1/2" SS L/P	1	NSS	
1.4	TEMPERATURE SWITCH	EBT-60-C-C	1	OMT	
1.5	LEVEL GAUGE WITH SWITCH	SNK254-0-T1-12-R	1	STAUFF	L/LEVEL TRIP
1.6	RETURN LINE FILTER	OMTF112F25NA2	1	OMT	
1.6.1	ELECTRICAL CLOGGING INDICATOR	PE2	1	OMT	N/C
1.7	PRESSURISED FILLER	TRV3-035	1	STAUFF	
1.8	SILICA BREATHER	SDB-093	1	STAUFF	
1.9	MANHOLE COVER RD350/V324	RD0019/1	1	HYFLO	
1.9.1	SEAL D268 RD350/V324	DI0003	1	HYFLO	
2	HAND PUMP	EP-25-D/TOA	1	CASSAPA	
3	GEAR PUMP 4 CC	510225006	2	REXROTH	
4	2,2 KW ELECTRIC MOTOR	2,2 KW / 380V / 4 POLE MOTOR	2	E.M.L	
4.1	BELL HOUSING	RV250/110/441	2	RAJA LOVEJOY	
4.2	PUMP HUB	SP240166	2	RAJA LOVEJOY	
4.3	E-MOTOR HUB	SP240125	2	RAJA LOVEJOY	
4.4	SPIDER	2240001	2	RAJA LOVEJOY	
4.5	ANTI VIBRATION MOUNTS		8	E.I.S	
5	PRESSURE LINE FILTER COMPLETE	250LE0005H10XL-A00-00B5,0-R0P00	1	EPE	
5.1	PRESSURE LINE FILTER ELEMENT	E-2.0005H10XL-A00-0-P	1	EPE	
6	SS CHECK VALVE	RD-L-12	3	PH	

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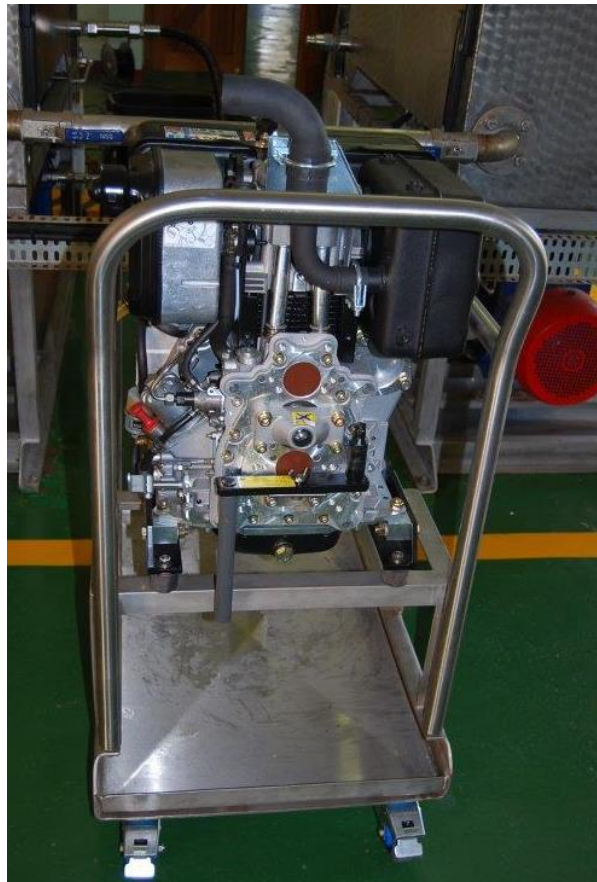
HYFLO

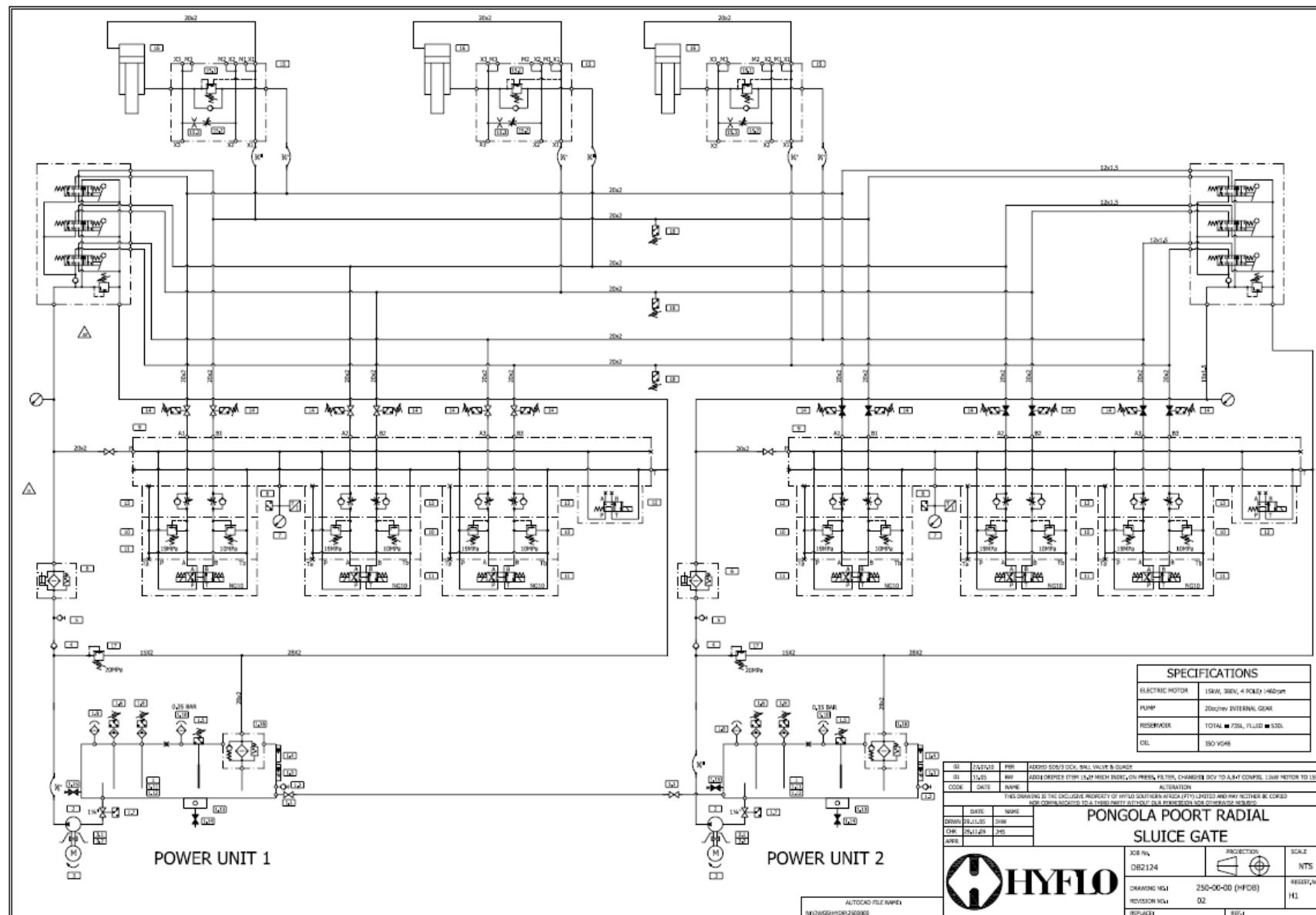
www.hyflo.co.za

Pongolapoort dam: radial gate hydraulic power pack



Pongolapoort dam: radial gate diesel driven standby hydraulic power pack

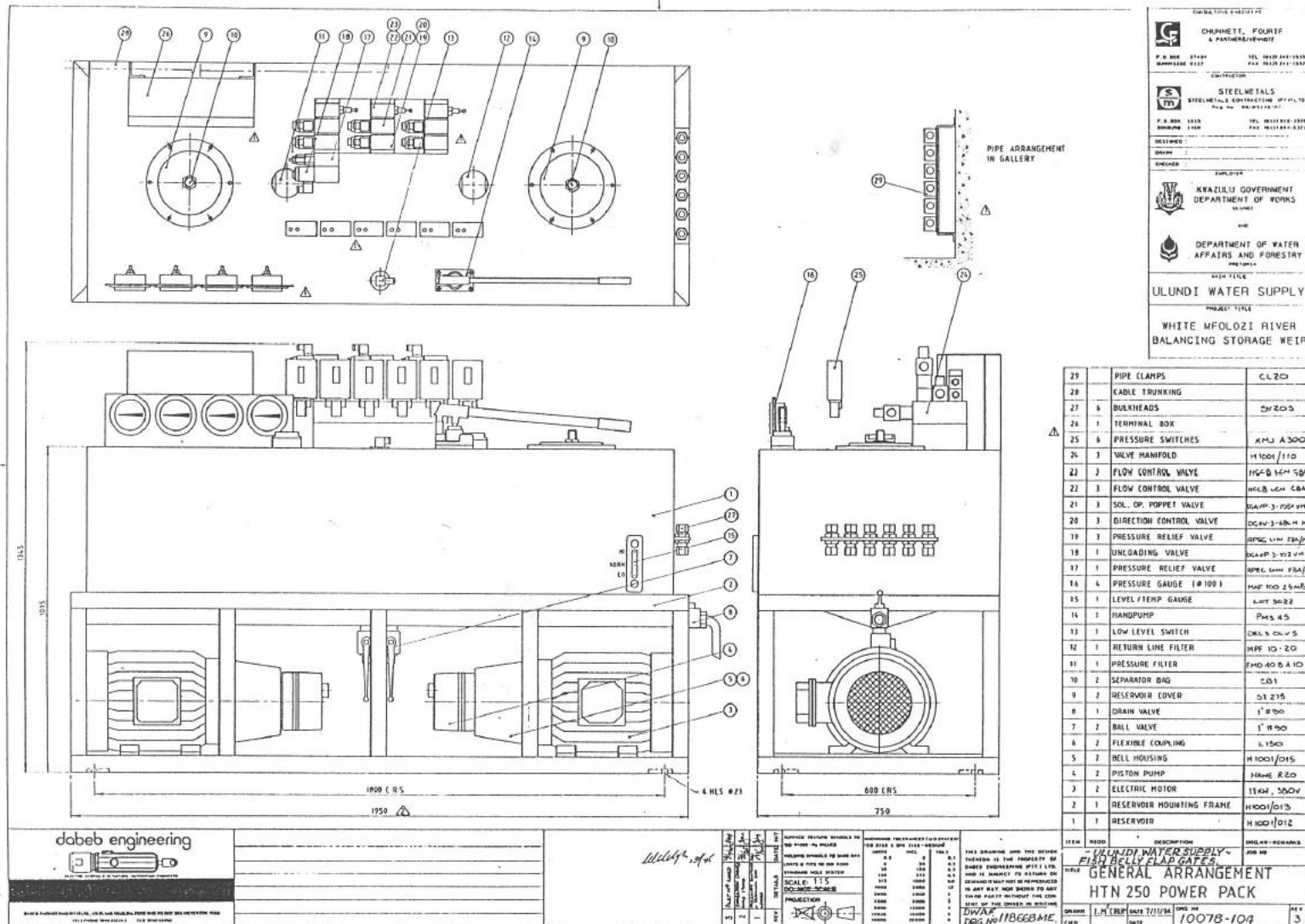


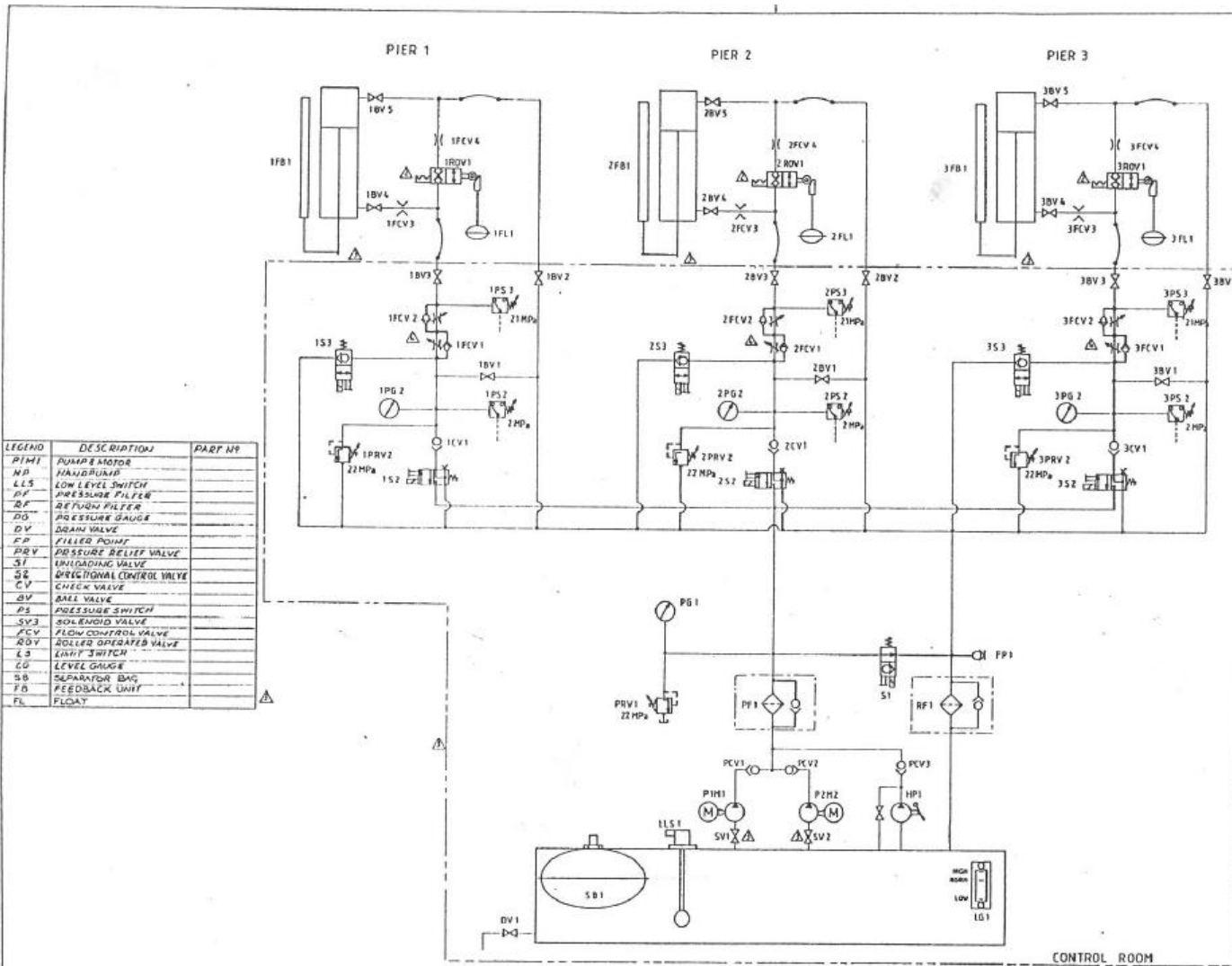


Pongolapoort dam: 3800mm outlet line: Hydraulic power pack



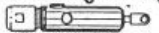
Ulundi weir





LEGEND	DESCRIPTION	PART NO
P1M1	PUMP MOTOR	
NB	HANDPUMP	
LLS	LOW LEVEL SWITCH	
PF	PRESSURE FILTER	
RF	RETURN FILTER	
DG	PRESSURE GAUGE	
DV	DRAIN VALVE	
FP	FILLER POINT	
PRV	PRESSURE RELIEF VALVE	
SV	SOLENOID VALVE	
SC	DIRECTIONAL CONTROL VALVE	
CV	CHECK VALVE	
SV	SAFETY VALVE	
PS	PRESSURE SWITCH	
SV3	SOLENOID VALVE	
PCV	FLOW CONTROL VALVE	
ROV	ROLLED OVERFLOW VALVE	
LS	LEVEL SWITCH	
LG	LEVEL GAUGE	
SB	SEPARATOR BAG	
FB	FEEDBACK UNIT	
FL	FLOAT	

dabeb engineering



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100% QUALITY GUARANTEE

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REV	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	10/10/2018	J. M. C. (dabeb.eng)	J. M. C. (dabeb.eng)
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			

REVISIONS

CHARNETT, FOURIE
6 PARTNERS/REWRITE

STEELMETALS
STEELMETALS CONTRACTING (PTY) LTD
REG NO: 2015/010/01

CONTRACTOR
F. O. BOX 1825
NORMSIDE 6120

CLIENT
KWAZULU GOVERNMENT
DEPARTMENT OF WORKS
ULUNDI

PROJECT TITLE
ULUNDI WATER SUPPLY

DESCRIPTION
WHITE MFOLOZI RIVER
BALANCING STORAGE WEIR

REVISION TITLE
FISH BELLY FLAP GATES -
HYDRAULIC CIRCUIT 72-
POWER PACK 3 SA CYLINDERS
C/W HANDPUMP, OVERFLOW,
MANUAL CONTROLS.

DESIGNED *W. J. C.* **DATE** 10/10/2018

CHECKED *J. M. C.* **DATE** 10/10/2018

CONTRACTOR
10078-103 118667ME

REVISION 01 112 314151