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A	<div>RAND WATER ZUIKERBOSCH PUMPING STATION CONTRACT NO: RW10397155/21</div>										A			
B											B			
C	<div>ZUIKERBOSCH TYPICAL SUMP PUMP LOOP DIAGRAMS</div>										C			
D											D			
E	<div>COVER SHEET</div>										E			
<div><div>FOR TENDER PURPOSES</div><div>SCALE: N/A © RAND WATER 2004 All Rights Reserved</div></div>														
No.	DATE	CHECKED	APPROVED	REVISION	DRG. No.	REFERENCES	SAP PROJECT No.: P.03743	DRAWN BY: P.MANANA	TRACED BY: L.ZIKALALA	<div> RAND WATER BOX 1127 JOHANNESBURG 2000 TEL: +27 11 682-0911</div>	WKS. No.	ZB	#01UGR	DEX
A	21-10-15	P.MANANA	T.NHLAPO	PRELIMINARY DESIGN	RA_40676	SLUDGE CROSSCONNECTION AUTOMATION NETWORK	NETWORK ID No.: 40422010060	CHECKED BY:			ZUIKERBOSCH PUMPING STATION			
					RA_40677	SLUDGE BYPASS AUTOMATION NETWORK	CONTRACT: RW10397155/21	APPROVED BY:			TYPICAL SUMP PUMP			
					RB_40675	TYPICAL PANEL CHASSIS & PLC RACK SCHEMATICS	FILE: RW10397155/21	SIGNATURE:			LOOP DIAGRAMS			
							DATE: 2021-10-15	Pr. Eng. No.:			COVER SHEET			
								DATE:		SECTION HEAD:	DRG. No. RB_40674	SHEET : No. 01 OF 10	REV. A	
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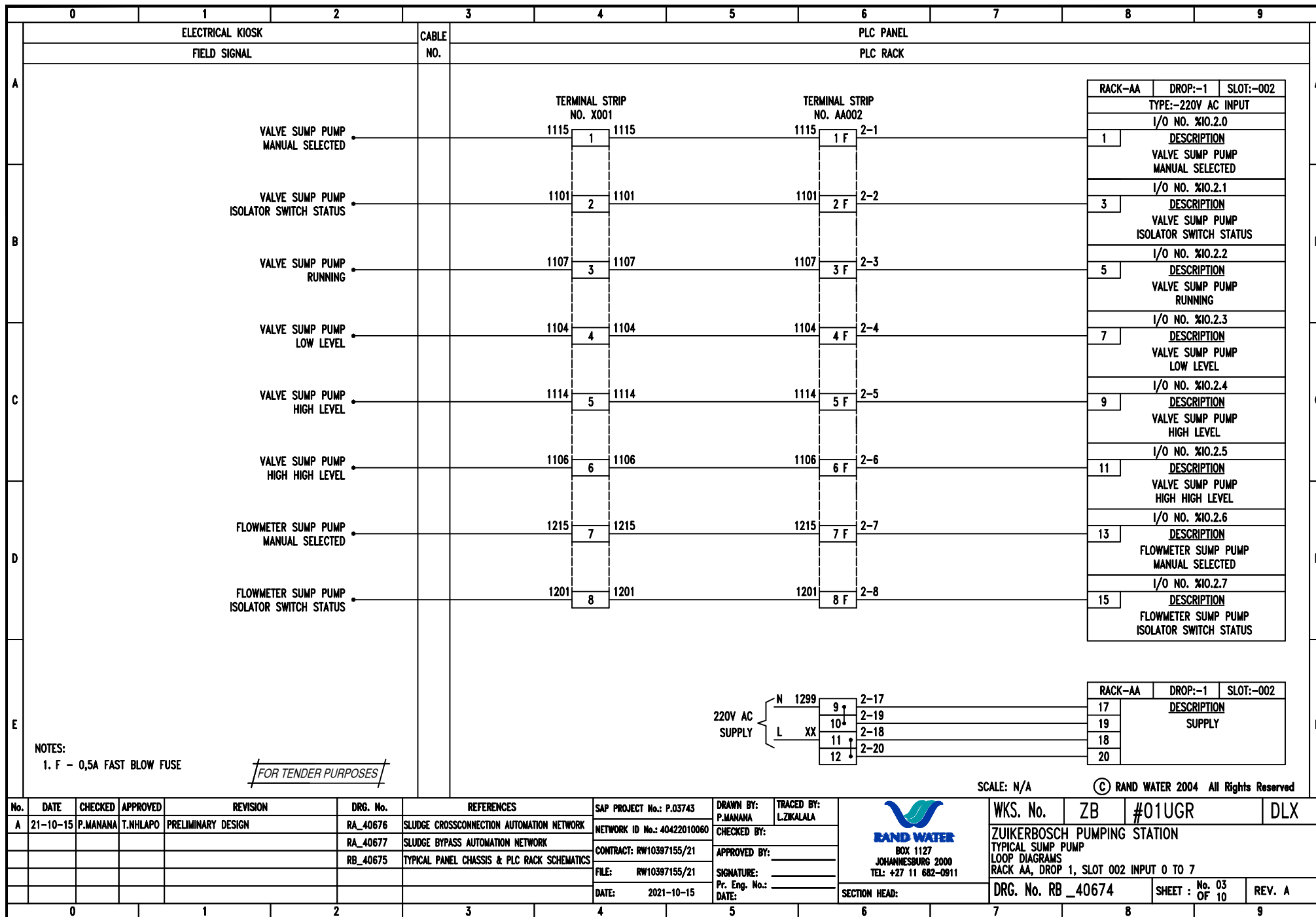
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A	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <h2 style="margin: 0;">REV INDEX</h2> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">A</td><td style="width: 5%;">01.</td><td>COVER SHEET</td></tr> <tr><td>A</td><td>02.</td><td>INDEX SHEET</td></tr> <tr><td>A</td><td>03.</td><td>RACK AA, DROP 1, SLOT 002 INPUT 0 TO 7</td></tr> <tr><td>A</td><td>04.</td><td>RACK AA, DROP 1, SLOT 003 INPUT 0 TO 7</td></tr> <tr><td>A</td><td>05.</td><td>RACK AA, DROP 1, SLOT 004 INPUT 0 TO 7</td></tr> <tr><td>A</td><td>06.</td><td>RACK AA, DROP 1, SLOT 004 INPUT 8 TO 15</td></tr> <tr><td>A</td><td>07.</td><td>24V DC POWER SUPPLY SCHEMATIC DIAGRAM</td></tr> <tr><td>A</td><td>08.</td><td>BLANK SHEET</td></tr> <tr><td>A</td><td>09.</td><td>MATERIAL LIST</td></tr> <tr><td>A</td><td>10.</td><td>CABLE SCHEDULE</td></tr> </table> </div> <div style="width: 50%; text-align: right;"> <h2 style="margin: 0;">REVISION STATUS</h2> <p> A+ - PRELIMINARY DESIGN  0 - DESIGN DRAWINGS  A+ - DESIGN CHANGES DURING MANUFACTURE  1 - AS BUILD IN FACTORY  1.A+ - MODIFICATION ON SITE  2 - AS COMMISSIONED ON SITE  2.A+ - POST COMMISSIONING MODIFICATIONS </p> </div> </div>										A	01.	COVER SHEET	A	02.	INDEX SHEET	A	03.	RACK AA, DROP 1, SLOT 002 INPUT 0 TO 7	A	04.	RACK AA, DROP 1, SLOT 003 INPUT 0 TO 7	A	05.	RACK AA, DROP 1, SLOT 004 INPUT 0 TO 7	A	06.	RACK AA, DROP 1, SLOT 004 INPUT 8 TO 15	A	07.	24V DC POWER SUPPLY SCHEMATIC DIAGRAM	A	08.	BLANK SHEET	A	09.	MATERIAL LIST	A	10.	CABLE SCHEDULE	A
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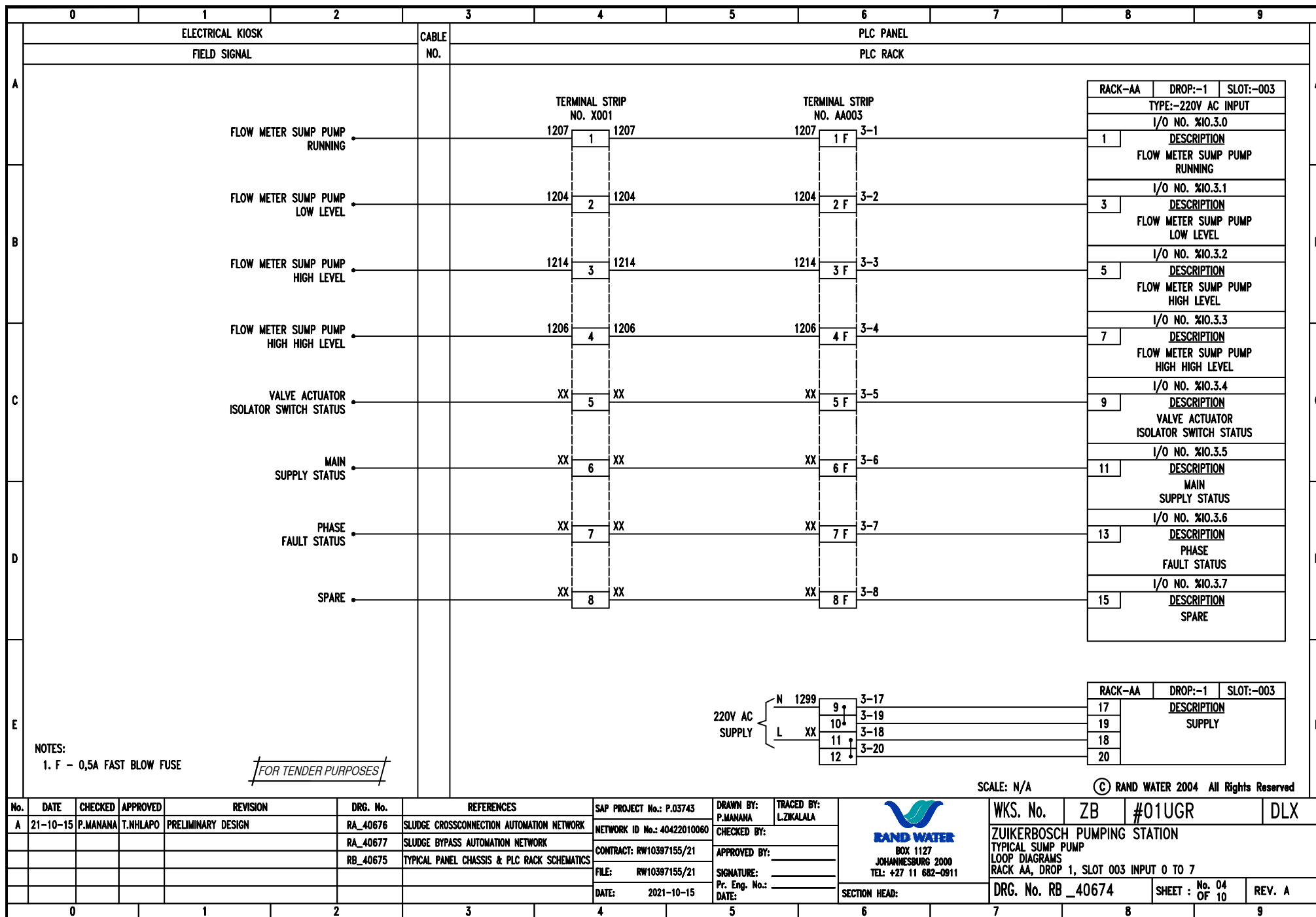
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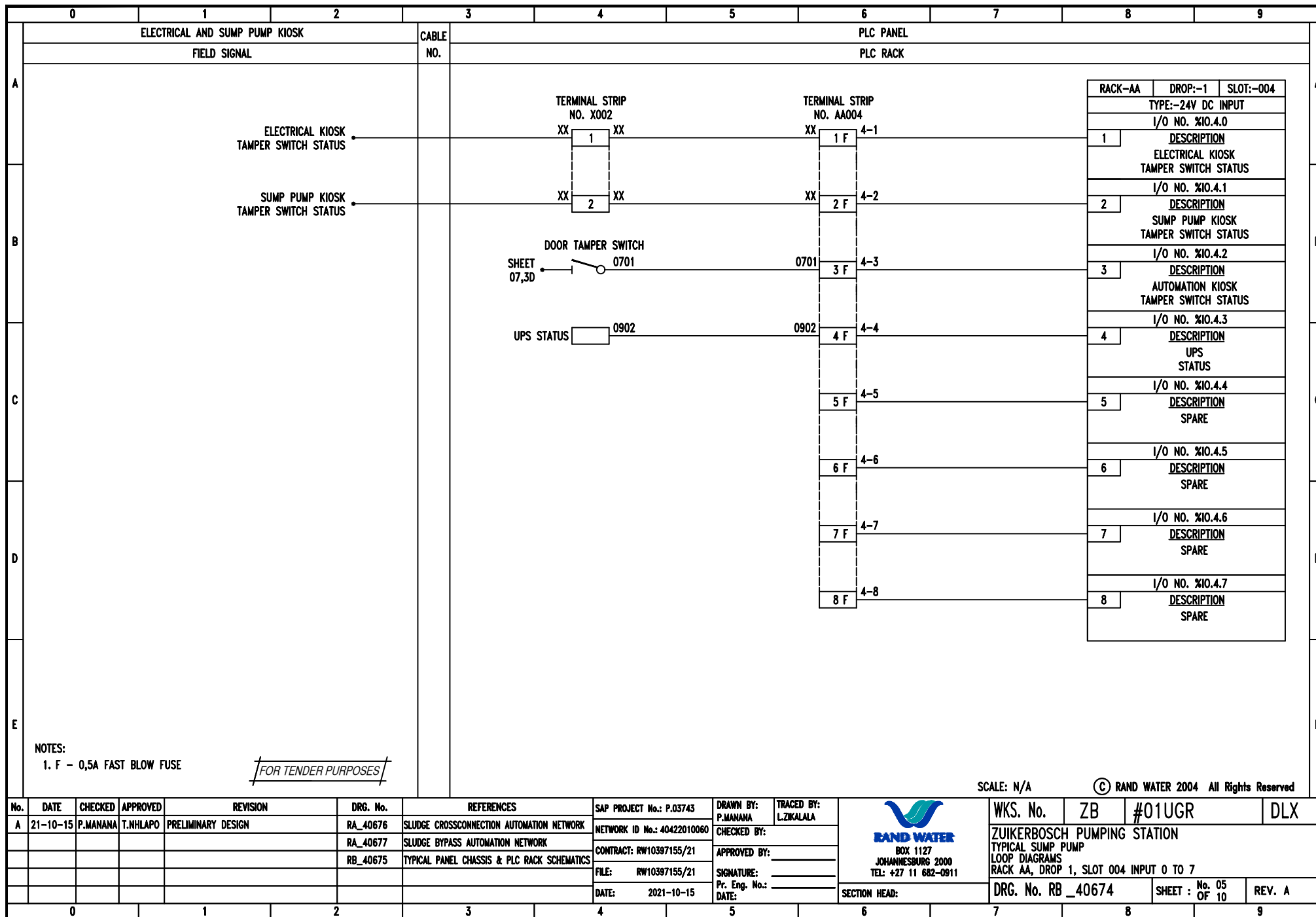
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No.	DATE	CHECKED	APPROVED	REVISION	DRG. No.	REFERENCES	SAP PROJECT No.: P.03743	DRAWN BY: P.MANANA	TRACED BY: L.ZIKALALA	 <b>RAND WATER</b> BOX 1127 JOHANNESBURG 2000 TEL: +27 11 682-0911	WKS. No.	ZB	#01UGR	DEX	
A	21-10-15	P.MANANA	T.NHLAPO	PRELIMINARY DESIGN	RA_40676	SLUDGE CROSSCONNECTION AUTOMATION NETWORK	NETWORK ID No.: 40422010060	CHECKED BY:			ZUIKERBOSCH PUMPING STATION TYPICAL SUMP PUMP LOOP DIAGRAMS INDEX SHEET				
					RA_40677	SLUDGE BYPASS AUTOMATION NETWORK	CONTRACT: RW10397155/21	APPROVED BY:							
					RB_40675	TYPICAL PANEL CHASSIS & PLC RACK SCHEMATICS	FILE: RW10397155/21	SIGNATURE:							
							DATE: 2021-10-15	Pr. Eng. No.:							
										SECTION HEAD:	DRG. No. RB_40674	SHEET : No. 02 OF 10	REV. A		

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A	<div style="border: 1px solid black; padding: 5px;"> <p>NOTES:</p> <p>1. F - 0,5A FAST BLOW FUSE</p> <p style="text-align: center;"><i>FOR TENDER PURPOSES</i></p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>TERMINAL STRIP NO. AA004</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="width:10%;">9 F</td><td style="width:10%;">4-9</td><td style="width:10%;"></td></tr> <tr><td>10 F</td><td>4-10</td><td></td></tr> <tr><td>11 F</td><td>4-11</td><td></td></tr> <tr><td>12 F</td><td>4-12</td><td></td></tr> <tr><td>13 F</td><td>4-13</td><td></td></tr> <tr><td>14 F</td><td>4-14</td><td></td></tr> <tr><td>15 F</td><td>4-15</td><td></td></tr> <tr><td>16 F</td><td>4-16</td><td></td></tr> </table> </div>	9 F	4-9		10 F	4-10		11 F	4-11		12 F	4-12		13 F	4-13		14 F	4-14		15 F	4-15		16 F	4-16		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">RACK-AA</td> <td style="width:15%;">DROP:-1</td> <td style="width:15%;">SLOT:-004</td> <td colspan="3"></td> </tr> <tr> <td colspan="6" style="text-align: center;">TYPE:-24V DC INPUT</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.8</td> </tr> <tr> <td style="width:10%; text-align: center;">9</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.9</td> </tr> <tr> <td style="text-align: center;">10</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.10</td> </tr> <tr> <td style="text-align: center;">11</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.11</td> </tr> <tr> <td style="text-align: center;">12</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.12</td> </tr> <tr> <td style="text-align: center;">13</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.13</td> </tr> <tr> <td style="text-align: center;">14</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.14</td> </tr> <tr> <td style="text-align: center;">15</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> <tr> <td colspan="6" style="text-align: center;">I/O NO. %IO.4.15</td> </tr> <tr> <td style="text-align: center;">16</td> <td colspan="5" style="text-align: center;">DESCRIPTION SPARE</td> </tr> </table>						RACK-AA	DROP:-1	SLOT:-004				TYPE:-24V DC INPUT						I/O NO. %IO.4.8						9	DESCRIPTION SPARE					I/O NO. %IO.4.9						10	DESCRIPTION SPARE					I/O NO. %IO.4.10						11	DESCRIPTION SPARE					I/O NO. %IO.4.11						12	DESCRIPTION SPARE					I/O NO. %IO.4.12						13	DESCRIPTION SPARE					I/O NO. %IO.4.13						14	DESCRIPTION SPARE					I/O NO. %IO.4.14						15	DESCRIPTION SPARE					I/O NO. %IO.4.15						16	DESCRIPTION SPARE					A
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A	21-10-15	P.MANANA	T.NHLAPO	PRELIMINARY DESIGN	RA_40676	SLUDGE CROSSCONNECTION AUTOMATION NETWORK	NETWORK ID No.: 40422010080	CHECKED BY:	
					RA_40677	SLUDGE BYPASS AUTOMATION NETWORK	CONTRACT: RW10397155/21	APPROVED BY:	
					RB_40675	TYPICAL PANEL CHASSIS & PLC RACK SCHEMATICS	FILE: RW10397155/21	SIGNATURE:	
							DATE: 2021-10-15	Pr. Eng. No.:	
								DATE:	

**RAND WATER**  
BOX 1127  
JOHANNESBURG 2000  
TEL: +27 11 682-0911

SECTION HEAD:

WKS. No. ZB #01UGR DLX

ZUIKERBOSCH PUMPING STATION

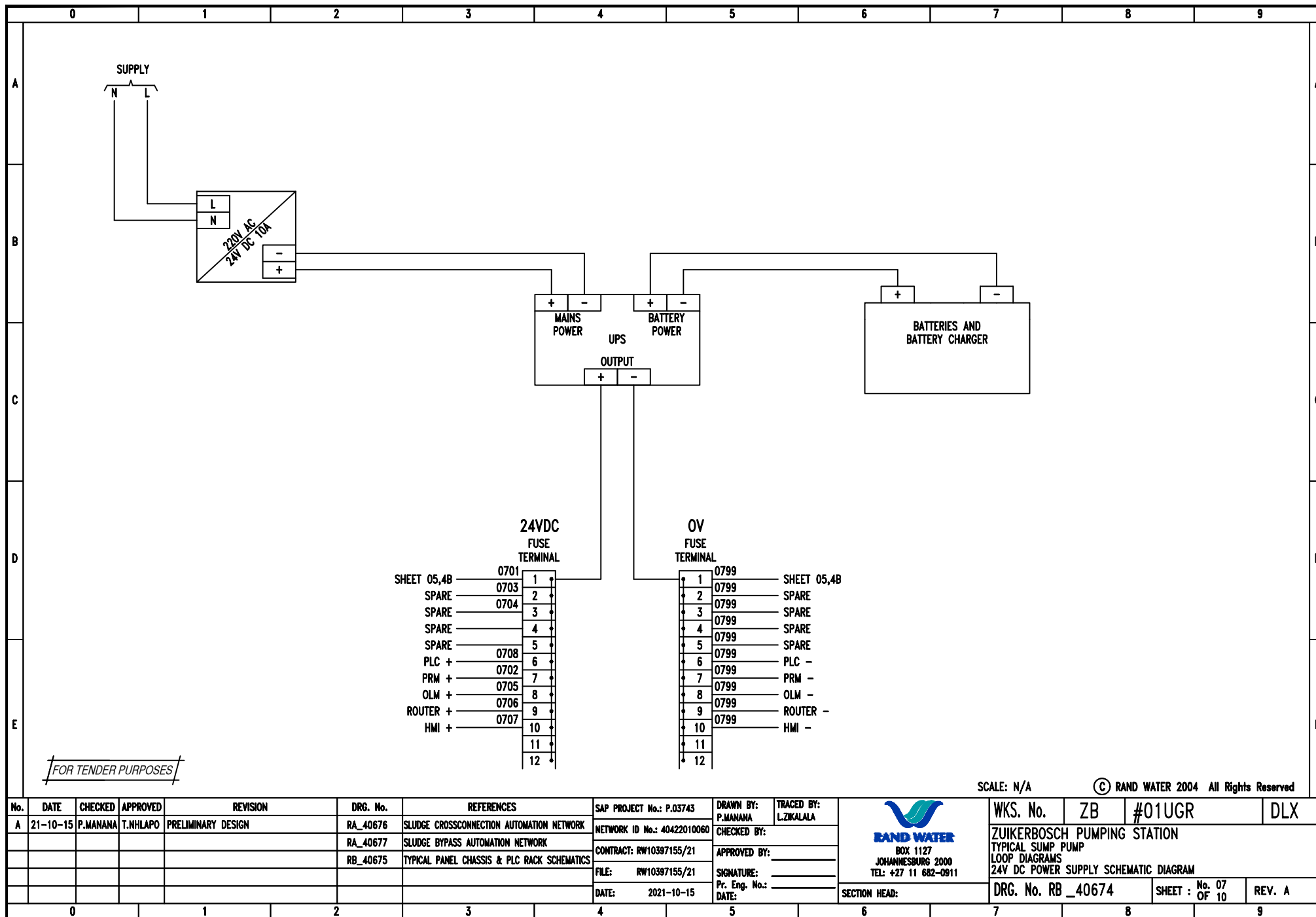
TYPICAL SUMP PUMP LOOP DIAGRAMS

RACK AA, DROP 1, SLOT 004 INPUT 8 TO 15

DRG. No. RB\_40674

SHEET : No. 06 OF 10

REV. A




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A											A
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<div>FOR TENDER PURPOSES</div>											
SCALE: N/A © RAND WATER 2004 All Rights Reserved											
No.	DATE	CHECKED	APPROVED	REVISION	DRG. No.	REFERENCES	SAP PROJECT No.: P.03743	DRAWN BY: P.MANANA	TRACED BY: L.ZIKALALA		
A	21-10-15	P.MANANA	T.NHLAPO	PRELIMINARY DESIGN	RA_40676	SLUDGE CROSSCONNECTION AUTOMATION NETWORK	NETWORK ID No.: 40422010060	CHECKED BY:		WKS. No. ZB #01UGR DLX	
					RA_40677	SLUDGE BYPASS AUTOMATION NETWORK	CONTRACT: RW10397155/21	APPROVED BY:		ZUIKERBOSCH PUMPING STATION	
					RB_40675	TYPICAL PANEL CHASSIS & PLC RACK SCHEMATICS	FILE: RW10397155/21	SIGNATURE:		TYPICAL SUMP PUMP	
							DATE: 2021-10-15	Pr. Eng. No.:		LOOP DIAGRAMS	
								DATE:		BLANK SHEET	
								SECTION HEAD:		DRG. No. RB_40674	
										SHEET : No. 08 OF 10	
										REV. A	
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C	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	C		
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FOR TENDER PURPOSES

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A	21-10-15	P.MANANA	T.NHLAPO	PRELIMINARY DESIGN	RA_40676	SLUDGE CROSSCONNECTION AUTOMATION NETWORK	NETWORK ID No.: 40422010060	CHECKED BY:			ZUIKERBOSCH PUMPING STATION TYPICAL SUMP PUMP LOOP DIAGRAMS MATERIAL LIST	DRG. No. RB_40674	SHEET : No. 09 OF 10	REV. A
					RA_40677	SLUDGE BYPASS AUTOMATION NETWORK	CONTRACT: RW10397155/21	APPROVED BY:						
					RB_40675	TYPICAL PANEL CHASSIS & PLC RACK SCHEMATICS	FILE: RW10397155/21	SIGNATURE:						
							DATE: 2021-10-15	Pr. Eng. No.:						
										SECTION HEAD:				

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