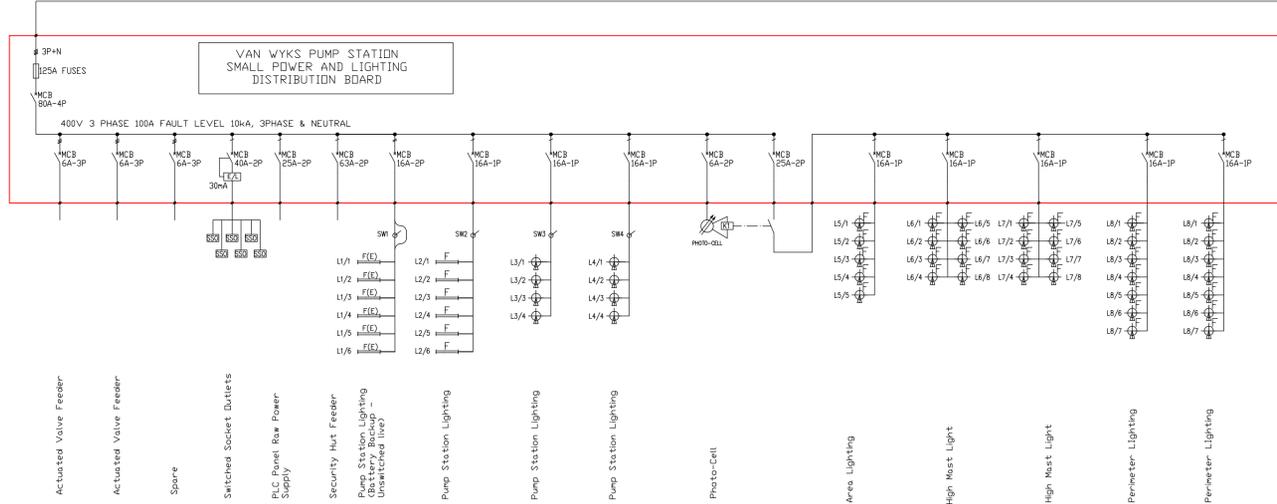


DESCRIPTION	Incomer	Sump No. 2 Pump No. 1	Sump No. 2 Pump No. 2	Sump No. 2 Pump No. 3	Sump No. 1 Pump No. 1	Sump No. 1 Pump No. 2	Sump No. 1 Pump No. 3	Coarse Screen 1 Drive	Coarse Screen 2	Bypass Channel Coarse Screen Drive	Coarse Screen Discharge Conveyer	Fine Screen Drive	Fine Screen Drive	Fine Screen Discharge Conveyer 1	Screen Press Washer	Screen Press Washer	Screen Press Washer	Screen Press Washer	2 Fine Screen Discharge Conveyer 2	Wash Water Pump 1	Wash Water Pump 2	Pump Station Sump Pump	Pump Station Blower Fan	Electric Hoist Feeder	Welding Socket Feeder	Control Transformer
CUBICLE NUMBER																										
kW		110kW	110kW	110kW	110kW	110kW	110kW	2kW	2kW	2kW	1.1kW	2kW	2kW	1.1kW	2.2kW	5kW	2.2kW	5kW	1.1kW	3kW	3kW	15kW	0.37kW	10kW	10kW	2.5kVA
F.L.C.	800A	189A	189A	189A	189A	189A	189A	3.4A	3.4A	3.4A	1.9A	3.4A	3.4A	1.9A	3.8A	8.2A	3.8A	8.2A	1.9A	4.9A	4.9A	3A	1A	17A	17A	3.4A
CIRCUIT BREAKER	800A	220A	220A	220A	220A	220A	220A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	25A	25A	25A	40A	N/A
EARTH FAULT FUSE (A)		375mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)	250mA (0.5sec-1)					
CONTACTOR		225A	225A	225A	225A	225A	225A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	9A	N/A	N/A	10A



NOTES SUMMARY - Van Wyksdrift Pump Station MCC
 FORM: 3B
 TYPE 2 CO-ORDINATION
 BUSBAR RATING: 2000A
 FAULT LEVEL: 50kA
 IAC - REQUIRED AS PER SANS SPECIFICATIONS
 COLOUR: ELECTRIC ORANGE
 LENGTH: TBC mm
 HEIGHT: TBC mm
 DEPTH: 600 mm
 MATERIAL: 2mm MILD STEEL
 MOUNTING: FREE STANDING
 FRONT ACCESS
 CABLE ENTRY: BOTTOM
 INSTALLATION: SUBSTATION
 RATING: IP44
 DRIVE: CONTROL & MONITORING: CONVENTIONAL
 COMMUNICATION: ETHERNET

KEY PLAN

- CIRCUIT BREAKER WITH EARTH FAULT
- DIRECT ON LINE STARTER
- VARIABLE SPEED DRIVE
- STAR/DELTA STARTER
- SOFT STARTER
- FIELD ISOLATOR STATION
- EMERGENCY STOP STATION
- 3 PHASE MOTOR
- TRANSFORMER
- FIELD STATION E-STOP & STOP/START
- CURRENT TRANSFORMER
- AMMETER
- VOLTMETER
- SURGE ARRESTER
- 1200mm 2x25W LED
- FLOOD LIGHT - LED 220W
- PHOTO CELL DAYLIGHT SWITCH
- LED BULKHEAD FITTING-50W
- SINGLE LIGHT SWITCH

DEPARTMENT	APPROVED	DESIGNATION	DATE

CONSULTING ENGINEERS

Royal HaskoningDHV
 Enhancing Society Together

Building No. 5 Country Club Estate
 21 Woodlands Drive
 Woodmead
 2191
 PO Box 867
 Gallo Manor
 2052
 Tel No. +27 87 352 1500

SURVEYED	
DESIGNED	E. BALDREY
DRAWN	E. BALDREY
CHECKED	E. BALDREY
SERVICES CHECKED	
GEOTECHNICAL INVESTIGATION	
SERVITUDES	
APPROVED	DITHOLO PHOGOLE
Pr. Eng. No.	20060098
DATE	25 February 2025

JOHANNESBURG WATER (SOC) LTD

TURBINE HALL
 65 NTEMI PILISO STREET
 NEWTOWN
 EGOLI 2001

TEL: (011) 688-1400
 FAX: (011) 688-1529

CITY OF JOHANNESBURG

OLIFANTSVLEI WWTW: CONTRACT 1

INFRASTRUCTURE RENEWAL PLAN

VAN WYKS RUST PUMP STATION

MOTOR CONTROL CENTRE SINGLE LINE DIAGRAM

DESIGN MANAGER

DATE

SCALE	AMENDMENTS	APPROVED	DATE	DRAWING No.
NTS	C01 ISSUED FOR TENDER	D. PHOGOLE	FEB 25	JW NUMBER JW14466-RHD-C1-02-D-E-0253 CONSULTANT'S NUMBER BW1400-RHD-C1-02-D-E-0253 FILE No JW13605
				C01