

MOTOR CONTROL CENTRE CONSTRUCTION AND ELECTRICAL SPECIFICATION																					
			MATERIAL TYPE & THICKNESS			FINISH		CABLE ENTRY													
Recessed	-	Vermin	X	1.2mm	-	Electro Galv.	-	Etch Prime	-	Top	-	Separated Divisions	-	Colour Main	Light Orange	Width	TBA	Busbar Rating	600A	Front Access	X
Semi Recessed	-	Dust Proof	X	1.8mm	-	3CR12	-	Brushed	-	Bottom	X	Emergency Section	-	Colour Emergency	Signal Red	Height	TBA	Fault Level	20kA	Rear Access	-
Surface	-	Hinged Panels	X	2.0mm	X	STAINLESS STEEL	X	Powder Coat	-	Gland Plate	X	UPS Section	-	Colour UPS	Dark Violet	Depth	TBA	Neutral	X	Supply S/Core	-
Floor Standing	X									Back	-	Normal Section	X	Colour Normal	Light Orange			Earth Bar	X	Supply Cable	X
Doors	X													Spare Capacity	30%			Earth Stud	-	Supply Busbar	X

GENERAL NOTES

- ALL WORK MUST COMPLY WITH SAN 10142
- SURGE ARRESTOR CLASS TYPE TO BE FINALISED ON DESIGN COMPLETION OF LIGHTNING & EARTHING SYSTEM
- ALL DIRECT-ON-LINE AND SOFT STARTER MOTORS TO BE OF TYPE 2 COORDINATION.

LEGEND

	400V RATED BUS BAR
	SINGLE POLE AND NEUTRAL
	TRIPLE POLE AND NEUTRAL
	SWITCH DISCONNECTOR
	CIRCUIT BREAKER
	SURGE ARRESTOR/PHASE + NEUTRAL
	EARTH LEAKAGE UNIT
	DIRECT ONLINE
	FORWARD - REVERSE DIRECT ONLINE
	VARIABLE SPEED DRIVE
	SOFT STARTER
	SELECTOR SWITCH
	VOLTMETER
	AMMETER
	CURRENT TRANSFORMER
	FUSE

CLIENT:



CITY OF  
**TSHWANE**  
IDENTITY EXCELLENCE

Water and Sanitation Department  
Admin Building  
Daspoort Waste Water Treatment Works  
Bosman Street Extension PO Box 1022  
Pretoria  
[www.tshwane.gov.za](http://www.tshwane.gov.za)

ELECTRICAL ENGINEER :



**Analog**  
ENGINEERING

Analog Engineering  
Office Unit 6, 88 Neagington Road,  
Waverley, Germiston, Gauteng  
[www.analog.co.za](http://www.analog.co.za)

CLIENT APPROVAL:

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_


DATE: \_\_\_\_\_

REV	DATE	DESCRIPTION	APPROVED BY
0	2024/07/26	FOR INFORMATION	M.TSAHA

PROJECT:

ROOIWAAL WWTW REFURBISH  
AND UPGRADE

TITLE:  
NORTH WORKS - INTERNAL RECYCLE MCC 2  
(SITUATED IN HUMUS P/S No.2 BUILDING)  
SINGLE LINE DIAGRAM

DESIGNED BY:	M.TSAHA	CHECKED BY:	M.TSAHA
APPROVED BY:	M.TSAHA	ECSA No.	20140130
		SIGNED:	
DRAWING No.	RWWTW - E- BNR- 02	SCALE: N.T.S	REV 0