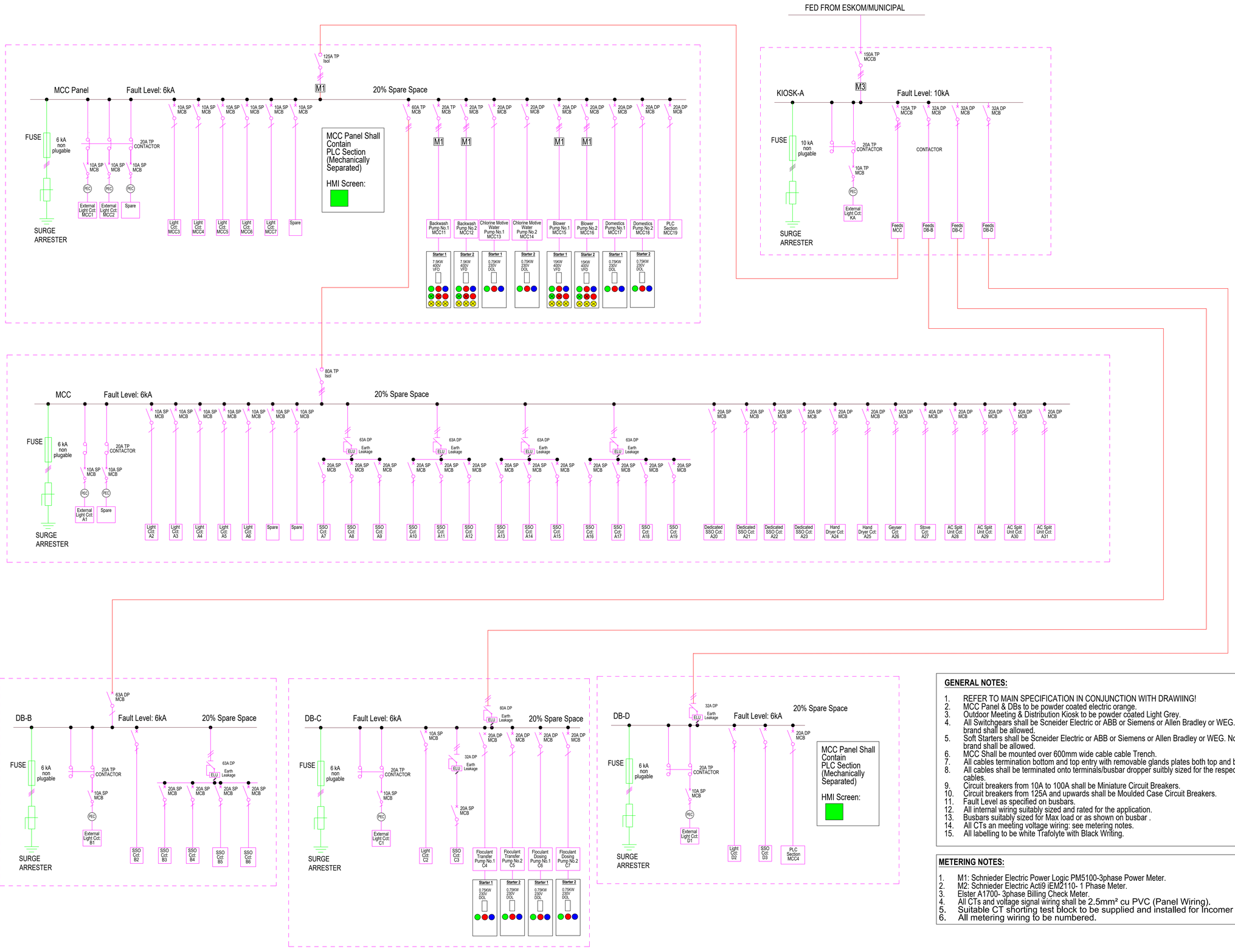
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THIS DRAWING HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE HN CONSULTING ENGINEERS QUALITY MANAGEMENT SYSTEM AND MEETS THE REQUIREMENTS OF THE SABS QUALITY GRADING SYSTEM THAT IS ISO 9001:2008 COMPLIANT

GENERAL NOTES

1. THIS DRAWING PROVIDES INFORMATION RELATED TO THE FORM OF THE WORK WHEN COMPLETED TOGETHER WITH GUIDANCE, WHERE FUNDAMENTAL TO THE DESIGN, FOR THE SEQUENCE OF CONSTRUCTION. THIS DRAWING DOES NOT PURPORT TO INCLUDE ANY NECESSARY PRECAUTIONS, ITEMS OR COMPONENTS REQUIRED FOR CONSTRUCTION SAFETY. ALL SUCH PRECAUTIONS MUST BE TAKEN AND ITEMS OR COMPONENTS SUPPLIED BY THE CONTRACTOR.
2. ANY DISCREPANCIES ARE TO BE CONFIRMED WITH THE ENGINEER ON SITE PRIOR TO WORK PROCEEDING.
3. ONLY WRITTEN DIMENSIONS SHALL BE USED.
4. ALL DIMENSIONS ARE IN mm.



GENERAL NOTES:

1. REFER TO MAIN SPECIFICATION IN CONJUNCTION WITH DRAWIING!
2. MCC Panel & DBs to be powder coated electric orange.
3. Outdoor Meeting & Distribution Kiosk to be powder coated Light Grey.
4. All Switchgears shall be Scneider Electric or ABB or Siemens or Allen Bradley or WEG. No other make or brand shall be allowed.
5. Soft Starters shall be Scneider Electric or ABB or Siemens or Allen Bradley or WEG. No other make or brand shall be allowed.
6. MCC Shall be mounted over 600mm wide cable cable Trench.
7. All cables termination bottom and top entry with removable glands plates both top and bottom.
8. All cables shall be terminated onto terminals/busbar dropper suitbly sized for the respective supply cables.
9. Circuit breakers from 10A to 100A shall be Miniature Circuit Breakers.
10. Circuit breakers from 125A and upwards shall be Moulded Case Circuit Breakers.
11. Fault Level as specified on busbars.
12. All internal wiring suitably sized and rated for the application.
13. Busbars suitably sized for Max load or as shown on busbar .
14. All CTs an meeting voltage wiring: see metering notes.
15. All labelling to be white Trafolyte with Black Writing.

METERING NOTES:

1. M1: Schnieder Electric Power Logic PM5100-3phase Power Meter.
2. M2: Schnieder Electric Acti9 iEM2110- 1 Phase Meter.
3. Elster A1700- 3phase Billing Check Meter.
4. All CTs and voltage signal wiring shall be 2.5mm² cu PVC (Panel Wiring).
5. Suitable CT shorting test block to be supplied and installed for Incomer metering.
6. All metering wiring to be numbered.

FOR TENDER

REFERENCE DRAWINGS

Issued For Information	JSM	31/10/23	A
Revision Details	By	Date	Suffix

Main-Consultant

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Client

NKANGALA DISTRICT MUNICIPALITY

Project Title

WESTERN HIGHVELD WATER TREATMENT WORKS

Drawing Title

ELECTRICAL SCHEMATIC DIAGRAM LINE

Scale: NTS	ON ORIGINAL PLAN
DRAWN BY : M.S	DATE: 12/12/23
DESIGNED BY : M.S	Pr No:
SIGNATURE :	DATE :
CHECKED ON BEHALF OF HN CONSULTING ENGINEERS BY : D.B	Pr No:
SIGNATURE :	DATE :
HN Drawing Number: E-325WS-03	Revision: A