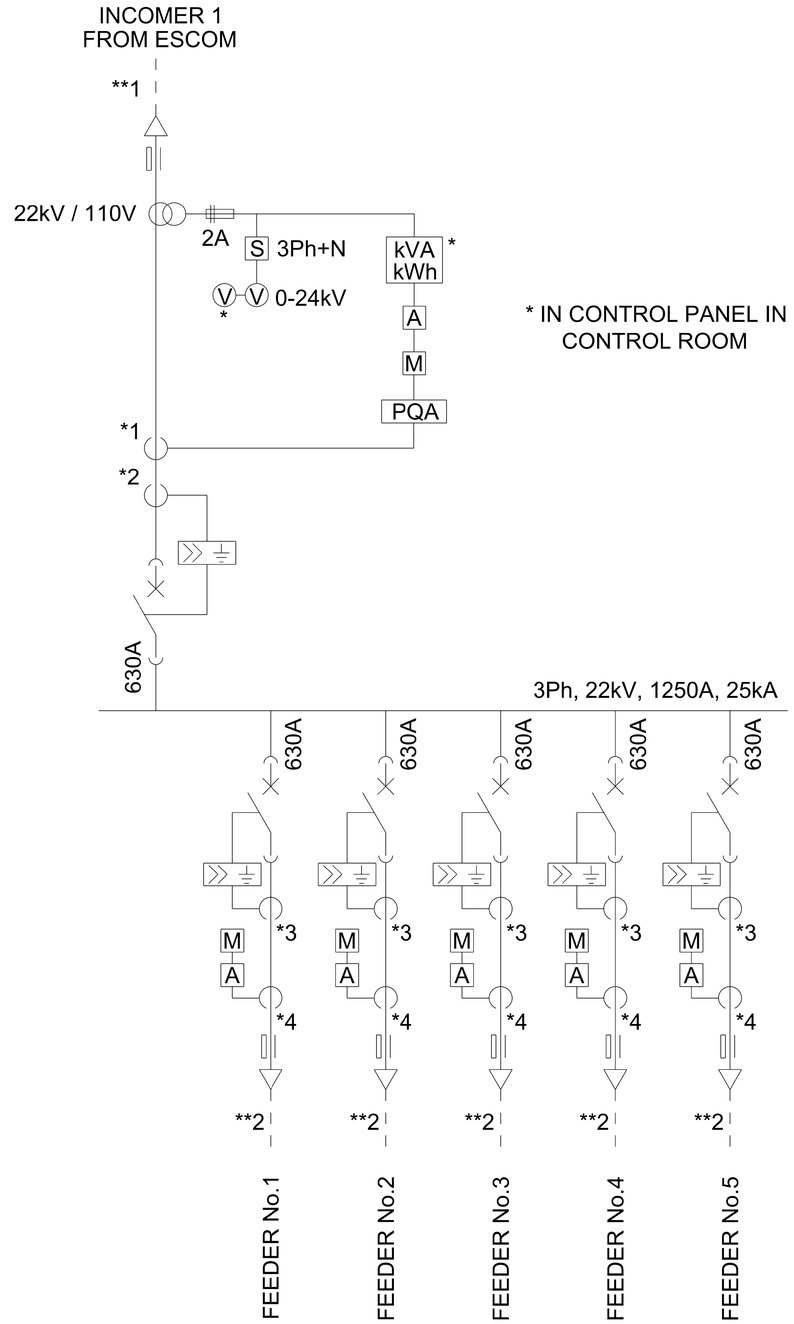

* IN CONTROL PANEL IN CONTROL ROOM

	VOLTAGE TRANSFORMER
	FUSE
kVA kWh	DEMAND METER
V	VOLTAGE METER
A	DIGITAL 3PH + MAXIMUM DEMAND METER
M	ELSTER A1700 METER
S 3Ph+N	VOLATGE SELECTOR SWITCH
	PROTECTION RELAY (OC+EF+ARC)
PQA	VECTO III POWER QUALITY ANALYSER

*1 600/400/200/5A CLASS 0.5 (METERING)
*2 600/400/200/5A CLASS 5P20 (OC+EF+ARC)
*3 400/200/100A/5A CLASS 5P20 (OC+EF+ARC)
*4 400/200/100/5A CLASS 0.5 (METERING)
**1 1x185mm² X 3CORE 22kV PILCDSTA CABLE
**2 1x95mm² X 3CORE 22kV PILCDSTA CABLE

FEEDER No.1	LOCAL MINIATURE SUBSTATION
FEEDER No.2	EXISTING 22kV LINE THROUGH TOWN
FEEDER No.3	EXISTING 22kV LINE TO INDUSTRIAL AREA
FEEDER No.4	FUTURE LINE TO REPLACE 11kV LINE
FEEDER No.5	FUTURE LINE TO REPLACE 6.6kV LINE

ISSUED FOR TENDER

REVISIONS

REVISION	DATE	DESCRIPTION
A	01 OCT 2020	ISSUED FOR COMMENT
B	13 NOV 2020	ISSUED FOR TENDER

REFERENCE DRAWINGS

DATE	DRAWING NUMBER	DESCRIPTION

tcb engineering
657 LONG STREET 8730 DOUGLAS
TEL: 082 825 6146

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	NAME	DATE
DRAWN	A. TOERIEN	NOV 2020
DESIGNED	A.J. JOOSTE	NOV 2020

PROFESSIONAL APPROVAL
PROFESSIONAL ENGINEER
NAME: A.J. JOOSTE
SIGNATURE:
REGISTRATION NUMBER: 20160581
DATE: 13 NOVEMBER 2020
MASTER COPY KEPT AT TCB ENGINEERING OFFICES BEARS THE SIGNATURE OF APPROVAL

CLIENT
KAREEBERG MUNICIPALITY
HANAU STREET
CARNARVON

CLIENT APPROVAL
CLIENT STAMP:

CARNARVON SUBSTATION

SCHEMATIC DIAGRAM

SHEET SIZE	PROJECT NUMBER	BUILDING NAME	LEVEL	SERVICE	DRW. NR.	SHEET	REVISION
A1	K 0 6 1 7	- - - - - - - - - - - -			0 1 1	OF 1	- B