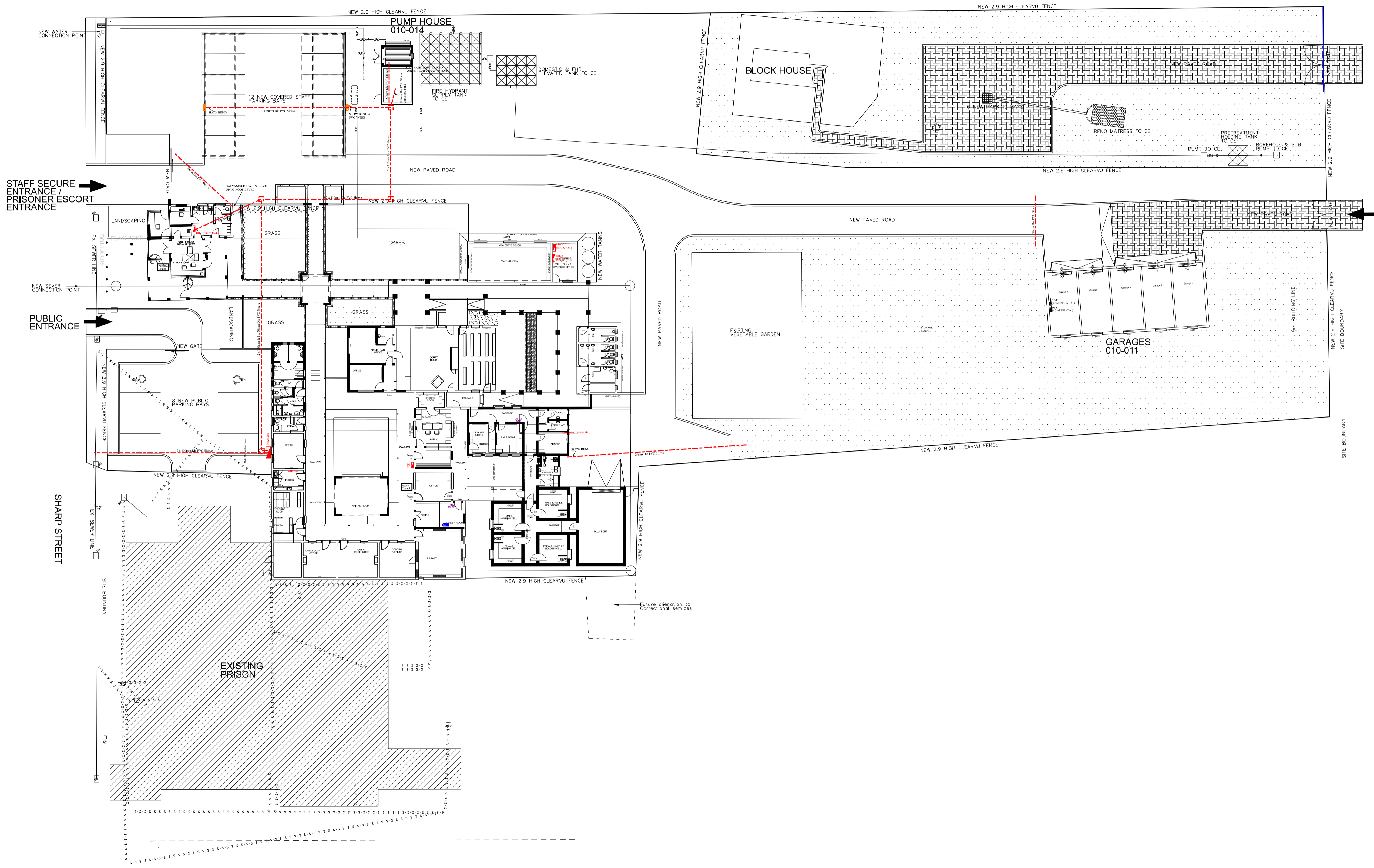


PART 5: DRAWINGS

ERF NO. 233
SAPS PORTION



ELECTRICAL LEGEND:	
SYMBOL	DESCRIPTION
	500mm x 500mm STEEL MANHOLE
	ELECTRICAL SLEEVE, DEPTH OF BURIAL - 500mm, SLEEVE DIAMETERS AS INDICATED ON DRAWING, TO BE INSTALLED WITH DANGER TAPE 200mm ABOVE SLEEVE

No.	DATE	AMENDMENT	D.P.W.

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 page type: A 1

public works
 Department: Public Works
 REPUBLIC OF SOUTH AFRICA
 DIRECTOR-GENERAL
 MR. MZIWONKE DLABANTU

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discipline: **ELECTRICAL ENGINEER**
 service:

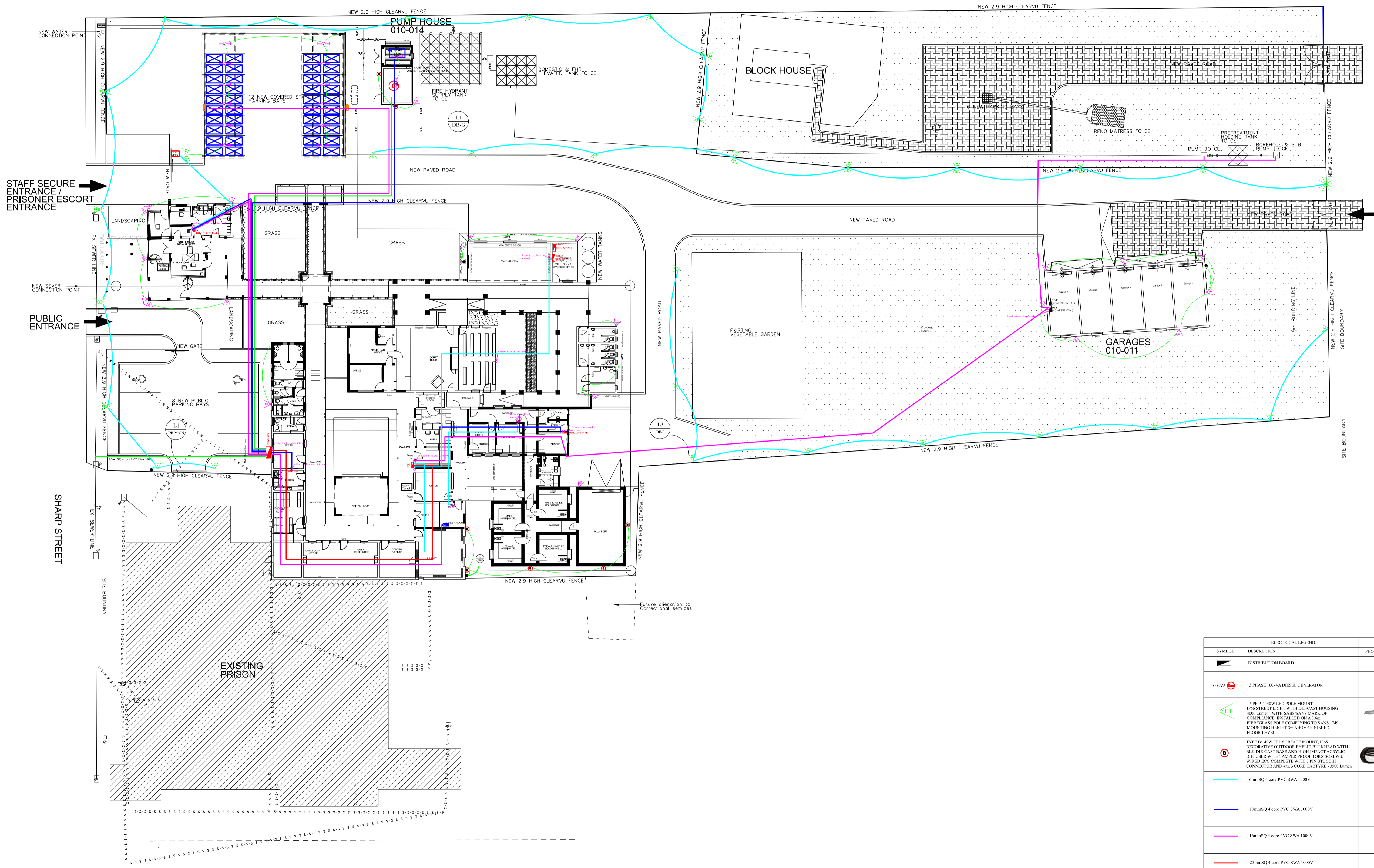
SKETCH PLANS
BERGVILLE JUSTICE-COMplete UPGRADING INCLUDING R & R

WCS number: **WCS 036745E**
 drawing title: **LIGHTING LAYOUT**

ref.no. _____ designed **M. SWANEPOEL**
 scale 1:100 drawn **M.v.JAARSVELD**
 date 8-APR-21 checked **M. SWANEPOEL**
 DPW drawing number

25500-VE1220-SP-SLEEVES

ERF NO. 233
SAPS PORTION



SYMBOL	DESCRIPTION	PHOTO
	DISTRIBUTION BOARD	
	3 PHASE 100kVA DIESEL GENERATOR	
	TYPE PF: 40W LED POLE MOUNT IP65 STREET LIGHT WITH DIE-CAST HOUSING 4000 Lumens WITH SABS SANS MARK OF COMPLIANCE. INSTALLED ON 3.6m FIBREGLASS POLE COMPLYING TO SANS 1749, MOUNTING HEIGHT 3m ABOVE FINISHED FLOOR LEVEL.	
	TYPE B: 40W CFL SURFACE MOUNT IP65 DECORATIVE OUTDOOR FLETO BREAKHEAD WITH BLK DIE-CAST BASE AND HIGH IMPACT ACRYLIC DIFFUSER WITH TAMPER PROOF TORX SCREWS. WIRED ECG COMPLETE WITH 3 PIN STUCCH CONNECTOR AND 4m ² 1 CORE CABLETYRE - 5000 Lumens	
	6mm ² SQ 4 core PVC SWA 1000V	
	10mm ² SQ 4 core PVC SWA 1000V	
	16mm ² SQ 4 core PVC SWA 1000V	
	25mm ² SQ 4 core PVC SWA 1000V	
	95mm ² SQ 4 core PVC SWA 1000V	
	CABLE TRAY	
	PUMP CONTROLLER HIGH LEVEL ON AND LOW LEVEL OFF AND DUTY STANDBY	
	GATE MOTOR	
	ACCESS CONTROL	
	SOLAR PANEL: 400W, 2m x 1m, 125kg MODULE EFFICIENCY: 18.1% POWER POINT VOLTAGE: 40V	
	DC COMBINER BOX FOR SOLAR PANELS	

No.	DATE	AMENDMENT	D.P.W.

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Department: Public Works
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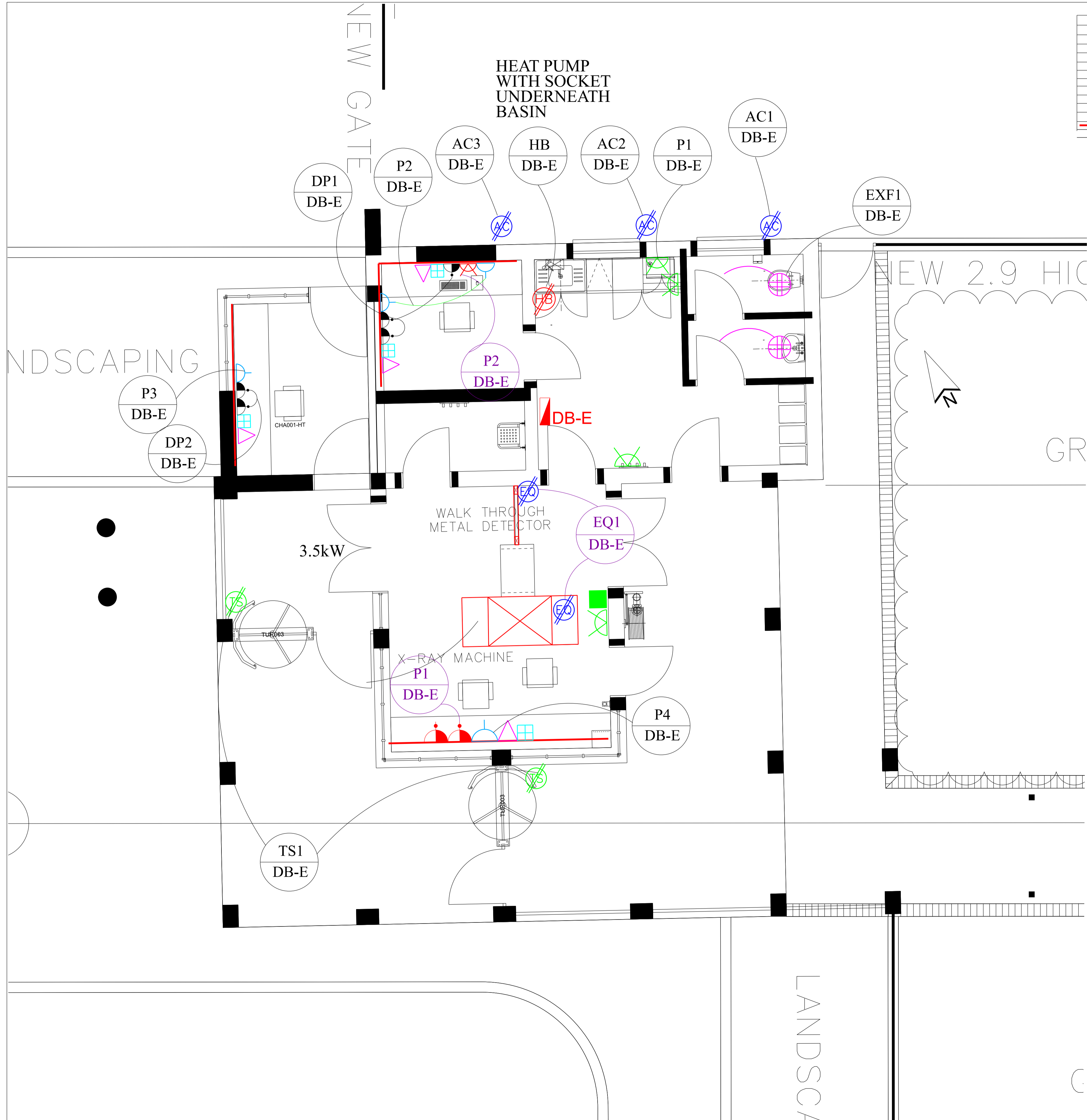
discipline **ELECTRICAL ENGINEER**
service

SKETCH PLANS
BERGVILLE JUSTICE-COMplete UPGRADING INCLUDING R & R

WCS number **WCS 036745E**
drawing title

LIGHTING LAYOUT
ref.no. designed **M. SWANEPOEL**
scale 1:100 drawn **M.V. JAARSVELD**
date 7-APR-21 checked **M. SWANEPOEL**
DPW drawing number

25500-VE1220-SP-SITE



POWER LAYOUT		ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATOR FOR TURNSTILE		TYPE A: 25W LED FLUSH MOUNT, IP44 LARGE FORM FACTOR DOWNLIGHT DIE CAST ALUMINIUM, 4000K COLOUR TEMP. AT LEAST 10000 HOURS LIFE COMPLETE WITH 3 PIN STUCK CONNECTOR AND 4x 3 CORE CABTYRE
	ISOLATOR FOR AIR CONDITIONER		TYPE B: 40W CFL SURFACE MOUNT, IP65 DECORATIVE OUTDOOR EYELID BELLHEAD WITH BLK DIE-CAST BASE AND HIGH IMPACT ACRYLIC DIFFUSER WITH TAMPER PROOF TORX SCREWS. WIRELESS COMPLETE WITH 3 PIN STUCK CONNECTOR AND 4x 3 CORE CABTYRE - 3500 Lumen
	ISOLATOR FOR HYDROBOL		VANDAL PROOF SURFACE MOUNT LUMINAIRE BATTERY TYPE: SUITABLE FOR MAXIMUM SECURITY APPLICATIONS, WITH 2 X 20W LED LAMPS WITH CORROSION RESISTANT HIGH PRESSURE DIE CAST ALUMINIUM BODY. ONE PIECE PUSH BUTTON RESISTANT POLY CARBONATE DIFFUSER, PROTECTION CLASS IP65 WITH 500V MARK OR SANS MARK OF COMPLIANCE - 3500 Lumen
	ISOLATOR FOR STOVE - STOVE COUPLER		TYPE C: 2 X 23W LED 1500MM SURFACE MOUNTED IP65 VAPOR PROOF WITH POLY-CARBONATE UV STABILIZED BASE AND DIFFUSER WITH 305 STAINLESS STEEL CLIPS. WIRELESS COMPLETE WITH 4x 3 CORE CABTYRE
	TELEPHONE POINT		TYPE D: 40W LED FLOODLIGHT, IP65, CCT 4000K, DIECAST ALUMINIUM HOUSING, WIRELESS COMPLETE WITH 3 PIN STUCK ADAPTOR AND 4x 3 CORE CABTYRE, 90LM WATT, DRIVER LIFETIME 30000HRS
	DATA POINT		TYPE E: 15W SURFACE MOUNT RED SAFE INDICATOR LIGHT
	DEDICATED SOCKET POINT IN POWER SKIRTING		TYPE EX: LED EMERGENCY EXIT LIGHT SINGLE SIDED, 1 BR BACKUP AND 20 LED ARRAY, NON-MAINFAINED MATTER BY BACK WALL MOUNT LUMINAIRE WITH SANS MARK OF COMPLIANCE
	SINGLE SOCKET OUTLET POINT IN POWER SKIRTING		TYPE FT: 30W LED POLE MOUNT IP66 STREET LIGHT WITH DIECAST HOUSING 3000 Lumen
	SINGLE SOCKET OUTLET POINT		TYPE FD: 1 X 40W LED FLOODLIGHT, IP65, CCT 4000K, DIECAST ALUMINIUM HOUSING, WIRELESS COMPLETE WITH 3 PIN STUCK ADAPTOR AND 4x 3 CORE CABTYRE, 90LM WATT, DRIVER LIFETIME 30000HRS
	DOUBLE SOCKET OUTLET POINT		20A LIGHT SWITCH - FLUSH MOUNT
	3 TIER POWER SKIRTING RISER		20A LIGHT SWITCH - FLUSH MOUNT - EMERGENCY SWITCH
	1 TIER POWER SKIRTING		20A LIGHT SWITCH - FLUSH MOUNT
	PROXIMITY SENSOR		PROXIMITY SENSOR LIGHT SWITCH - ULTRASONIC AND PASSIVE INFRARED
			PHOTO CELL FOR LIGHT SWITCH
			WALK-THROUGH METAL DETECTOR, INTERNAL DIMENSIONS (2080 x 720 x 600mm, 11.4 W X D), 250VAC, 500W, 50/60 Hz, ADJUSTABLE SENSITIVITY, CONFORM TO FA 14-GUNTEST & NIEC(2001)400 STANDARDS. VISIBLE MULTIZONE DISPLAY BAR WITH AUDIBLE ALARMS.
			X-RAY BAGGAGE SCANNER, TUNNEL DIMENSIONS OF 615mm (W) x 410 (H), MAXIMUM LOAD OF 160KG (175KG DISTRIBUTION), CONVEYER GENERATOR VOLTAGE OF 108V, DISPLAY RESOLUTION OF AT LEAST 1200 x 1024, 3000-RAD PRESSURE LEVEL - 5MBA, 9837EWG & 80336EWG COMPLIANT
			DB-A MAIN DB-B KITCHEN DB-C KITCHEN 2 DB-D SMALL CLAMPS DB-E GATE HOUSE DB-F GEN CHANGE OVER SWITCH DB-G1 (BACKUP MAIN) DB-G2 (BACKUP F)

No.	DATE	AMENDMENT	D.P.W.

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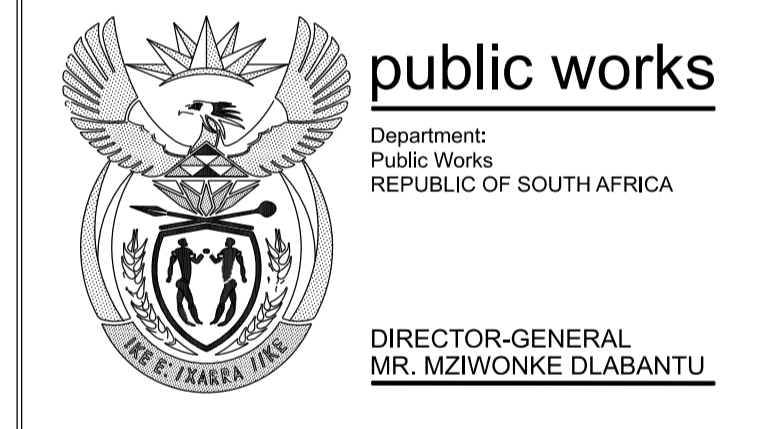
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discipline: ELECTRICAL ENGINEER

service: SKETCH PLANS

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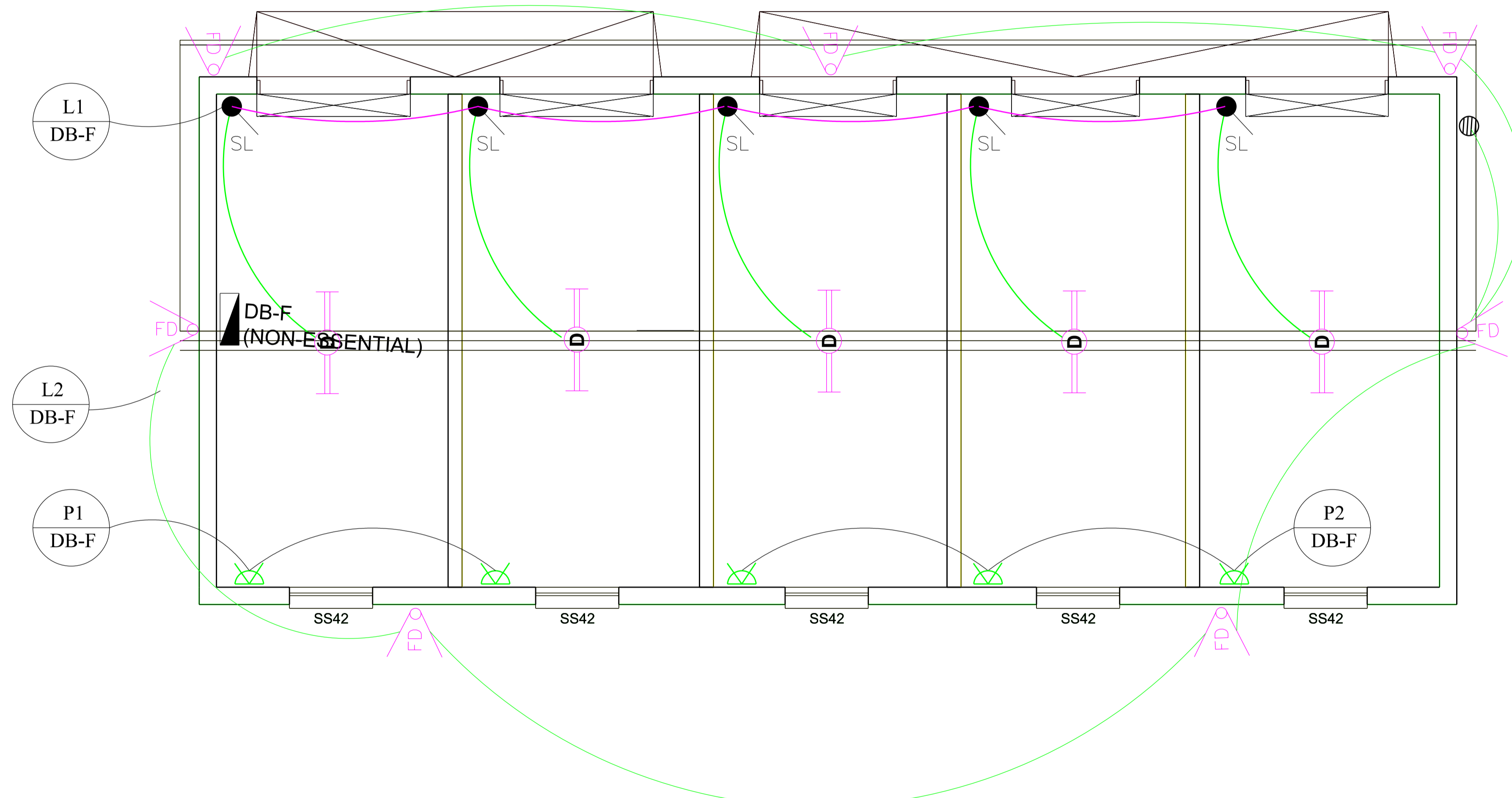
WCS number: WCS 036745E

drawing title: POWER LAYOUT

ref.no. _____ designed M. SWANEPOEL
scale 1:100 _____ drawn M.v.JAARSVELD
date 8-APR-21 _____ checked M. SWANEPOEL

DPW drawing number: 25500-VE1220-GATE-SP

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	DISTRIBUTION BOARD
	Type D: 2 x 23W LED 1500mm Surface mounted (MS) Type proof with Polycarbonate UV stabilised base and diffuser with 365 Stainless steel clips. Wound ECG complete with 4m 3 Core Cable.
	Type FD: 1 x 40W LED Floodlight, EPOC CCT 4000K, 600mm Minimum Housing. Wound ECG complete 4m 3 Core Cable, 100Watt, Drive Lifetime 30000hrs
	20A LIGHT SWITCH - SINGLE LEVER
	DOUBLE SOCKET OUTLET POINT



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cad file name	page type
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SKETCH PLANS

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WCS number **WCS 036745E**

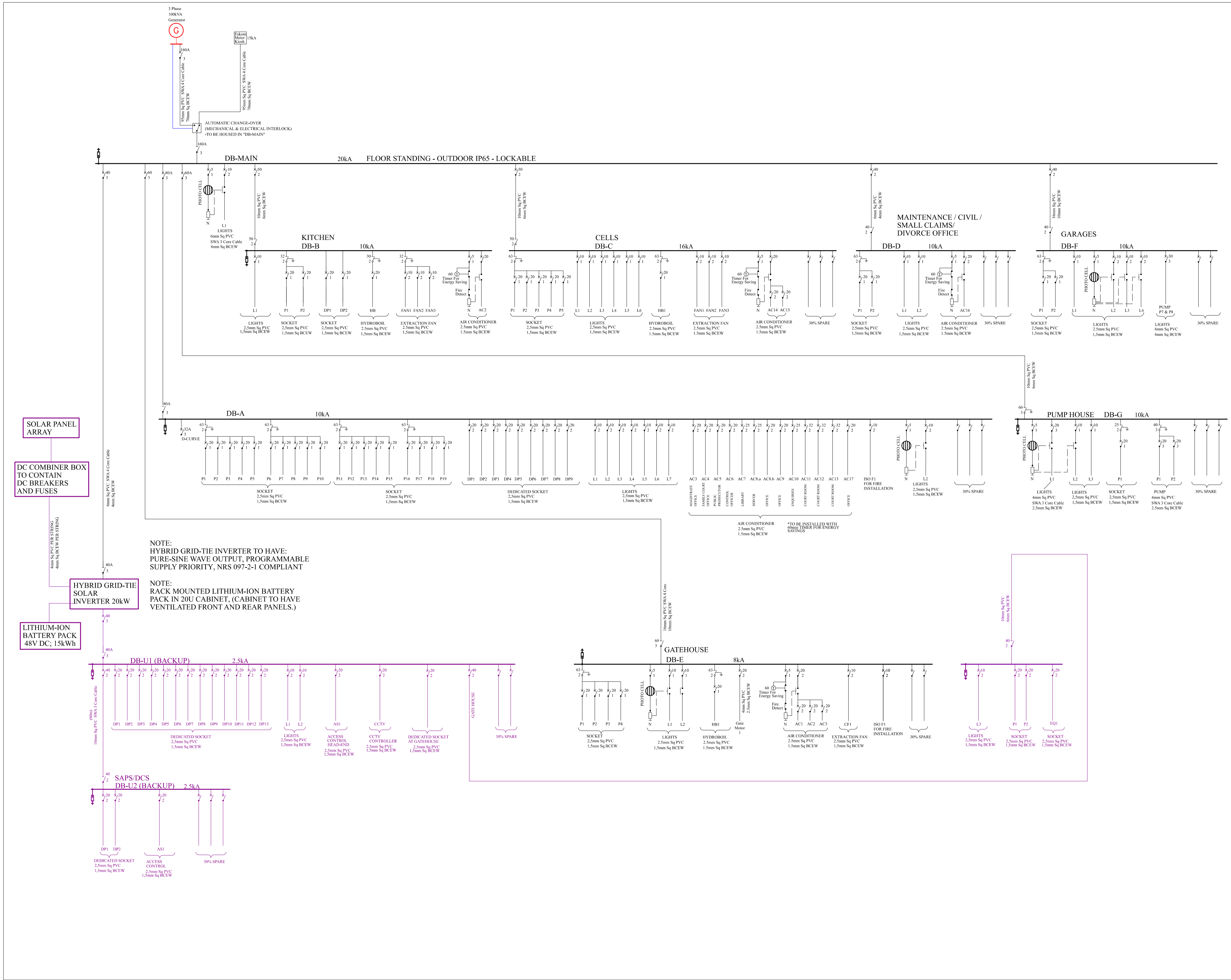
drawing title

GARAGE BLOCK SMALL POWER LAYOUT

ref.no.	designed M. SWANEPOEL
scale 1:50	drawn M.v.JAARSVELD
date 3-DEC-20	checked M. SWANEPOEL

DPW drawing number

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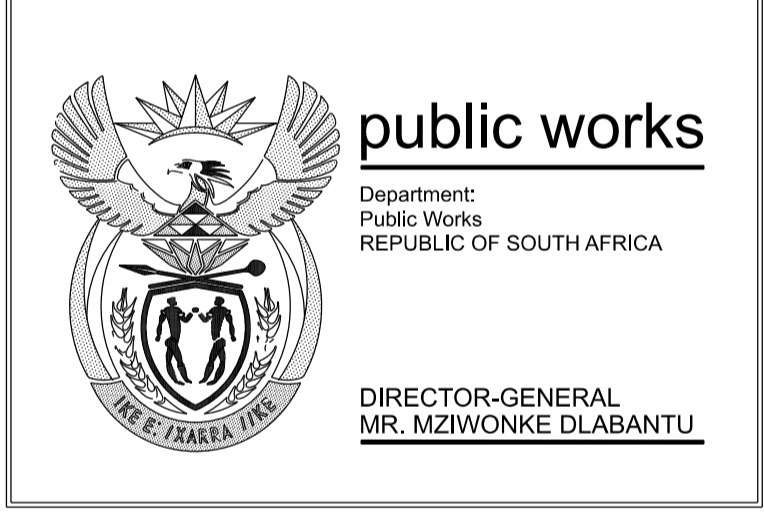
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date:

professional registration no.:

cad file name: **VE1220-SLD** page type: **A 1**



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discipline: **ELECTRICAL ENGINEERING**

service:

SKETCH PLANS

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WCS number: **WCS 036745E**

drawing title: **SINGLE LINE DIAGRAM**

ref.no. designed **M. SWANEPOEL**

scale NTS drawn **M.v.JAARSVELD**

date 23-APRIL-2021 checked **M. SWANEPOEL**

DPW drawing number: **25500-VE1220-SLD**

