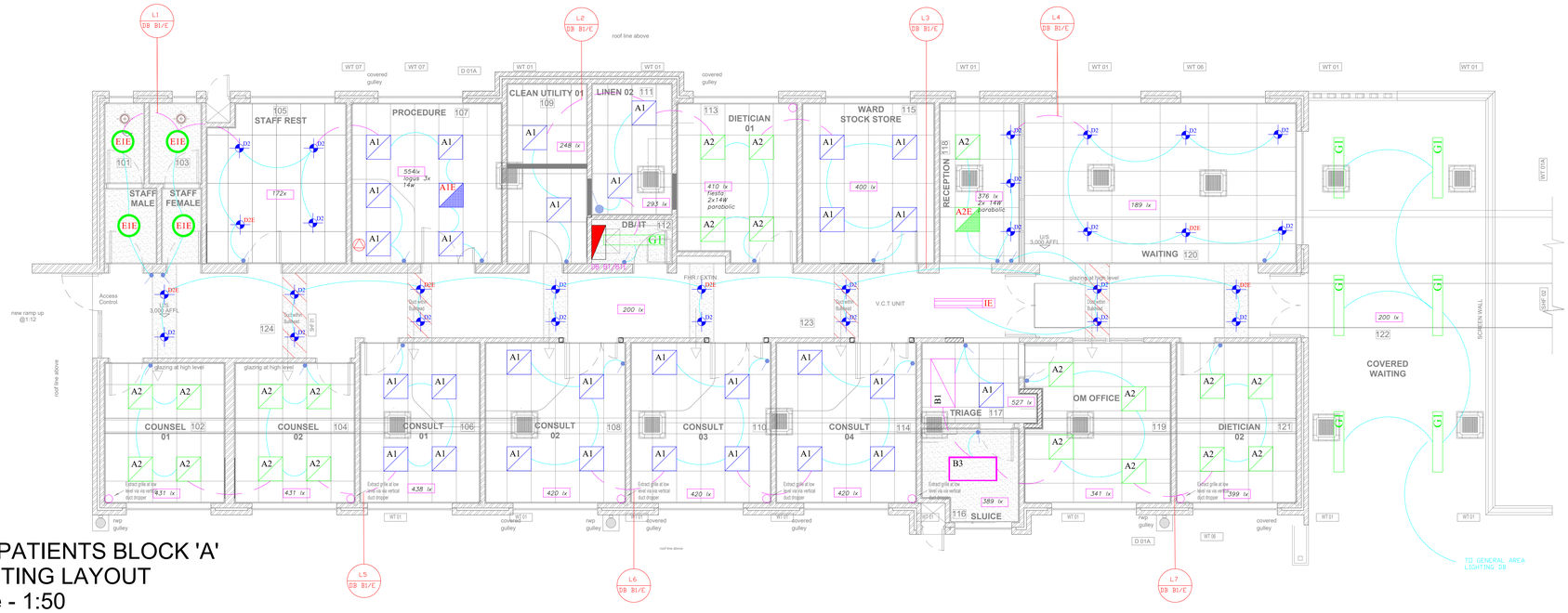
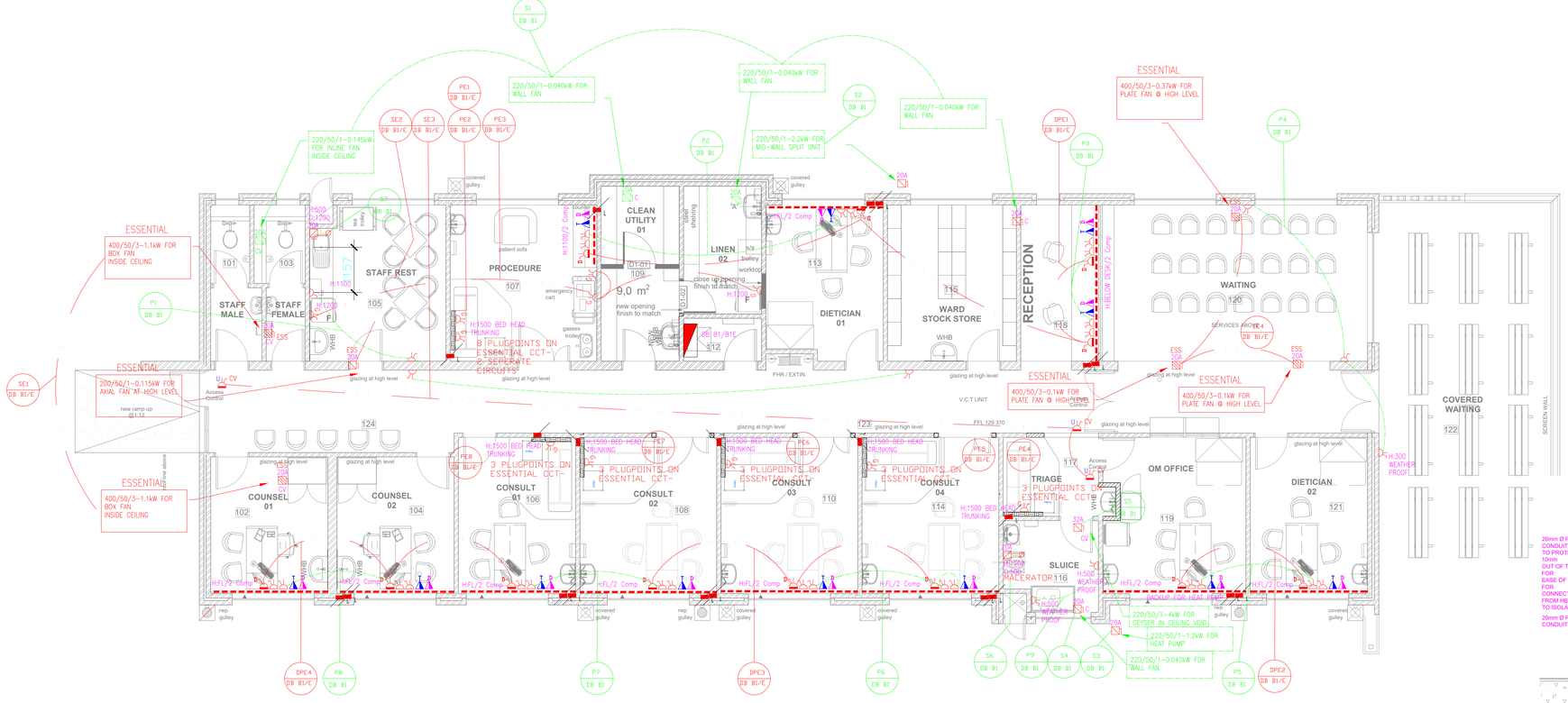


OUTPATIENTS BLOCK 'A'
LIGHTING LAYOUT
scale - 1:50

LEGEND

A1 / B1	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / B2	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER
B1E	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP
B2	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE
B2E	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E– DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E1 / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
F1 / F1E	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H1 / H1E	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J1 / J1E	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
EXIT	EXIT SIGN
	EXAMINATION LIGHT (30 000 lx) EXAMINATION LIGHT (10 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO–ELECTRIC CELL (DAYLIGHT SWITCH)

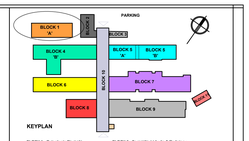


OUTPATIENTS BLOCK 'A'
POWER LAYOUT
scale - 1:50

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
H/–COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR–CONDITIONING
	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
C	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60# OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER–PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ('U' FOR DOWN)

TYPICAL DETAIL HYDROBOIL ISOLATOR & OUTLET



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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Directors: Jodi Davids-Harber, Gerhard le Roux

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvubu	JUNE 2021	1:50
CHECKED	M. Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION
CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT
DEPARTMENT OF HEALTH

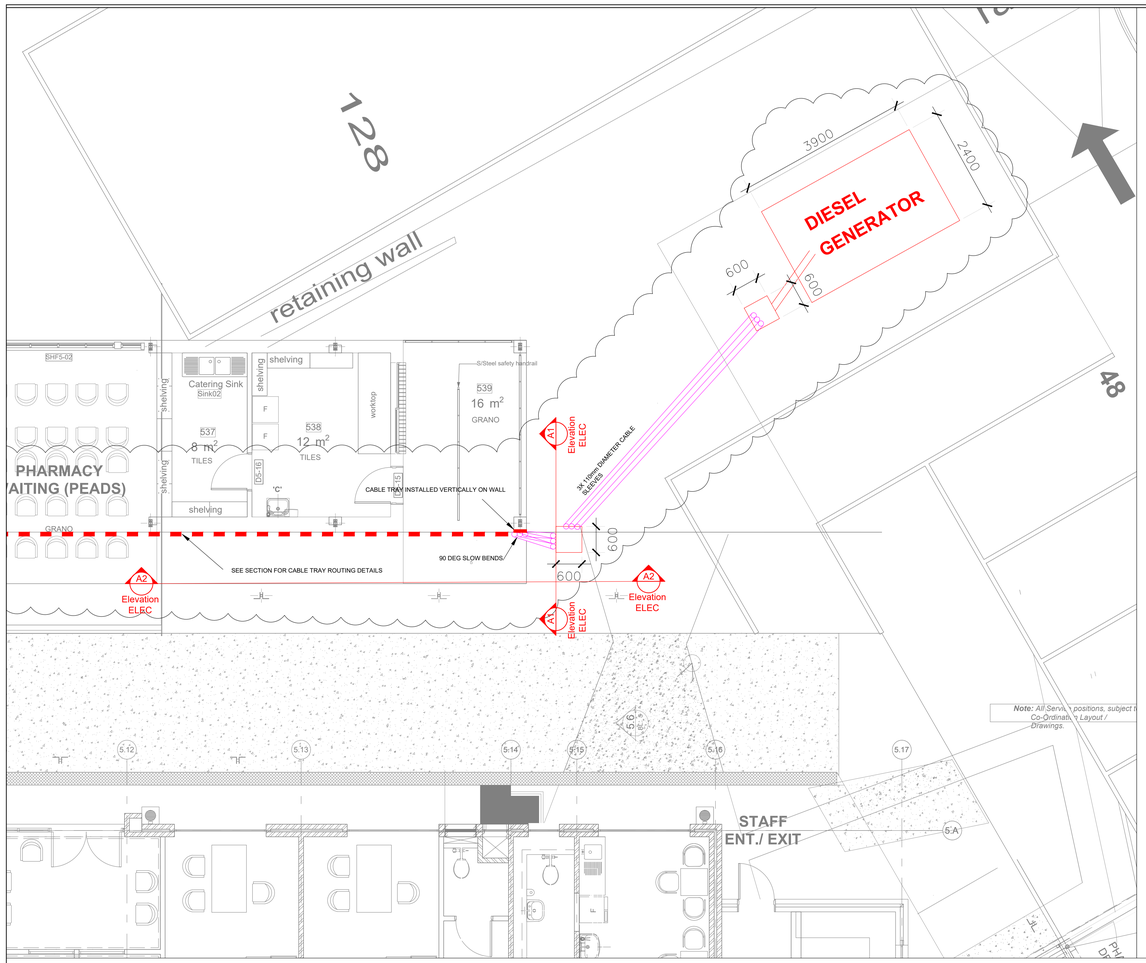
PROJECT INFORMATION
PROJECT DESCRIPTION
KING DINUZULU HOSPITAL
-TB COMPLEX
COMPLETION CONTRACT
SITE DESCRIPTION
BLOCK 01 - Outpatients Block 'A'
Lighting and Power Layout

DRAWING INFORMATION
DRAWING TITLE
STAGE 4 - TENDER

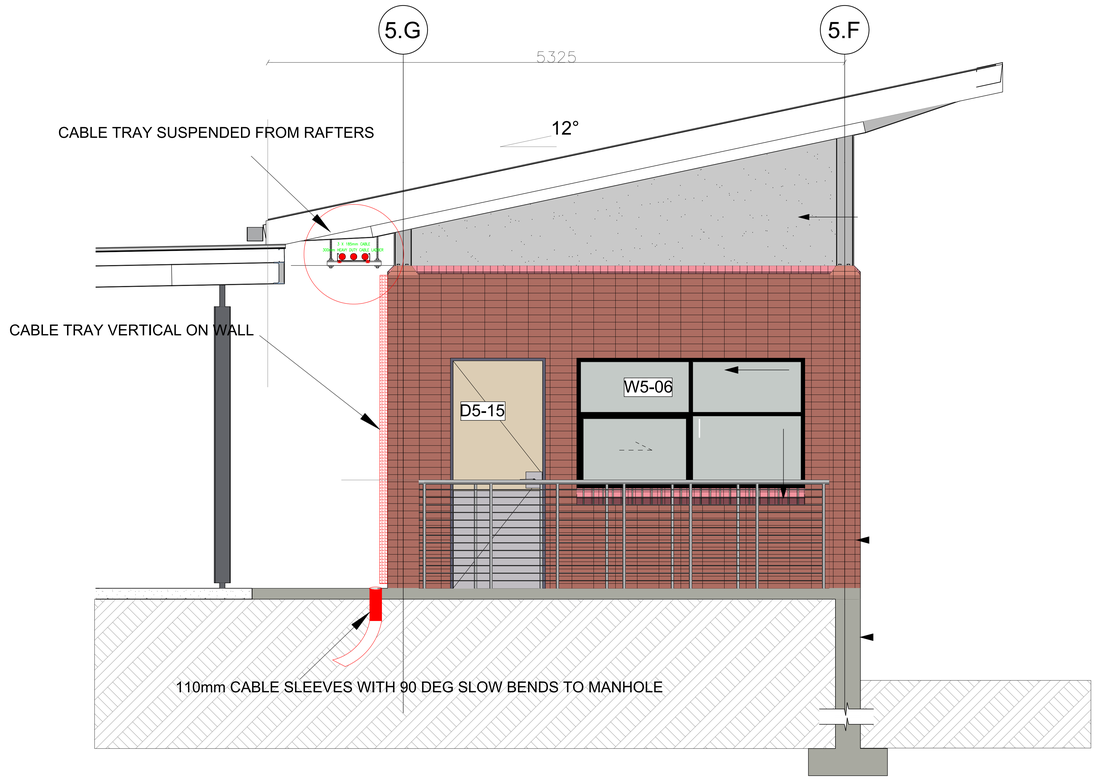
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B1	01	T	0

MD = MEASURED DRAWING SP = SKETCH PLAN PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.



PHARMACY WAITING/ TUCK SHOP

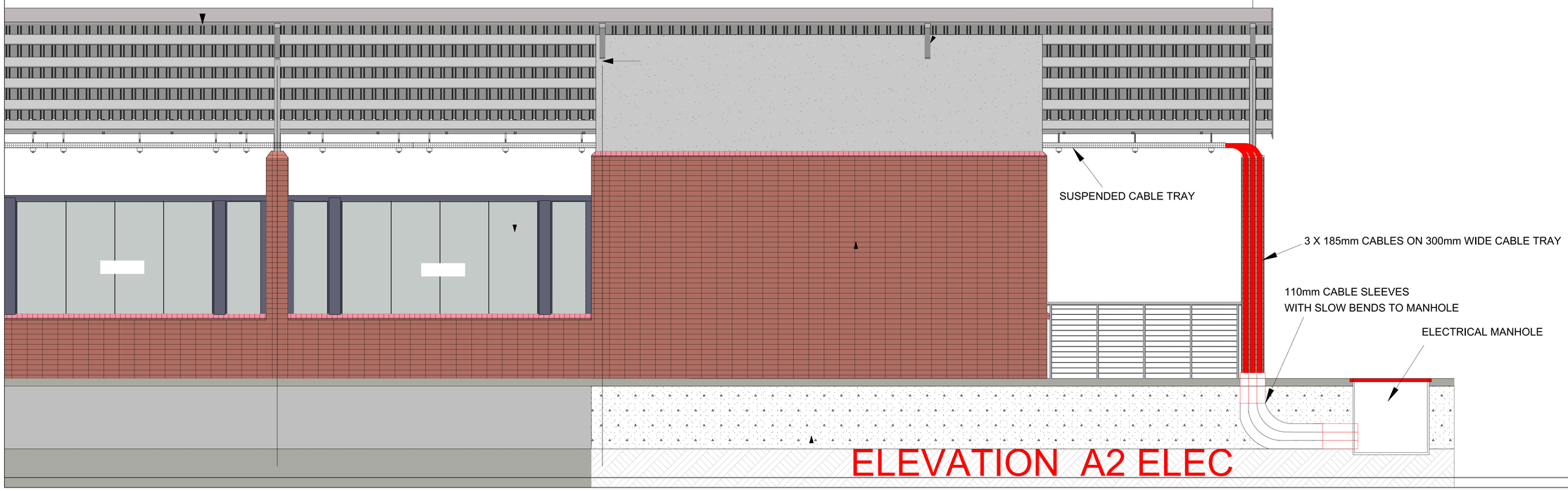


ELEVATION A1 ELEC

1:20

5.23

PHARMACY WAITING | TUCK SHOP



ELEVATION A2 ELEC

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1.	11/2021	Cable tray through Pharmacy waiting area	DRAWN

LEGEND

- ELECTRICAL DISTRIBUTION BOARD
- 6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
- 6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
- 2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
- POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
- SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
- SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
- ELECTRICAL CABLE LADDER ROUTE
- ELECTRICAL TRUNKING (PRIMARY ROUTE)
- ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
- ELECTRICAL TRUNKING (51 X 51mm)
- 25mm PVC CONDUIT

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RESPONSIBLE PERSON		DATE	SCALE
DRAWN			1:50
CHECKED	M. Bhoyat	November 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME: **DEPARTMENT OF PUBLIC WORKS - KZN**

USER DEPARTMENT: **DEPARTMENT OF HEALTH**

PROJECT INFORMATION

PROJECT DESCRIPTION: **KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT**

SITE DESCRIPTION: CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE: **STAGE 3 - DESIGN DEVELOPMENT**
ELEVATIONS OF CABLE TRAY

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B10	05	D	1

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER DP = DEVIATION PLAN

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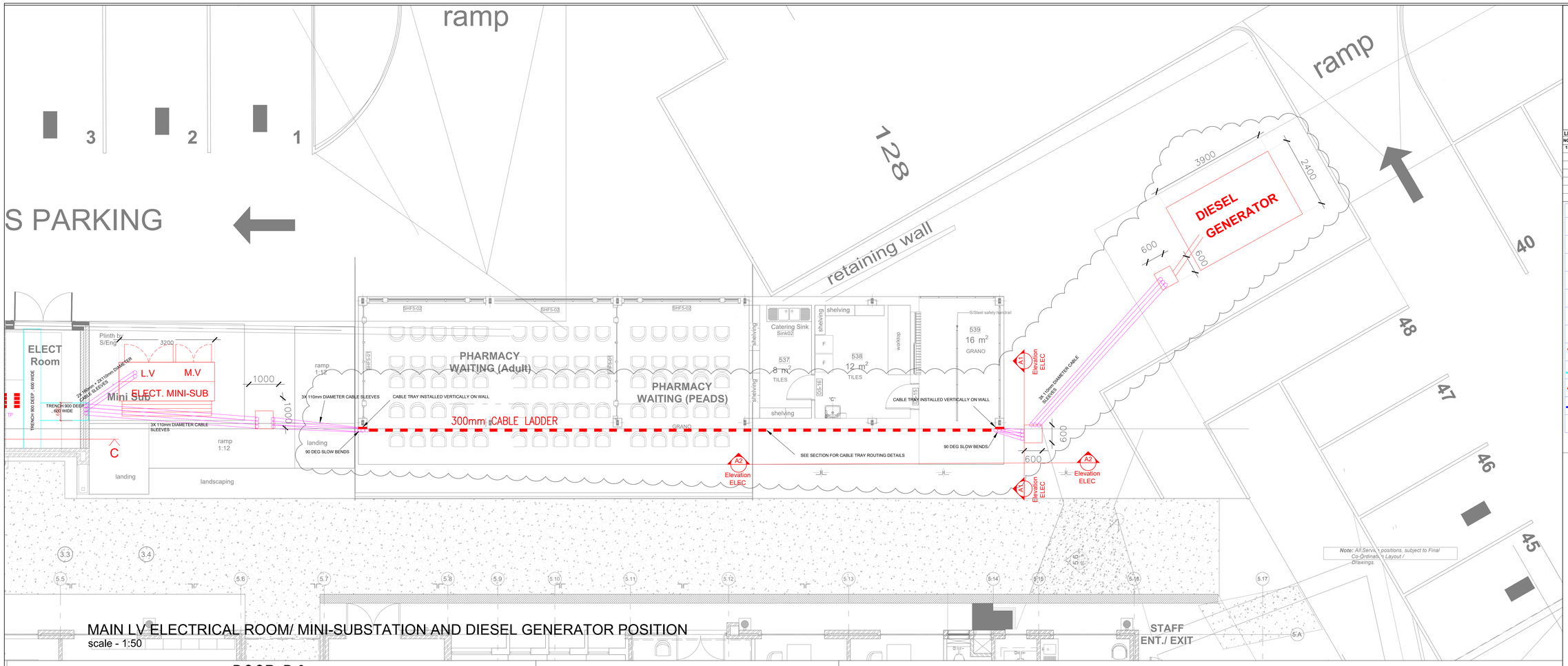
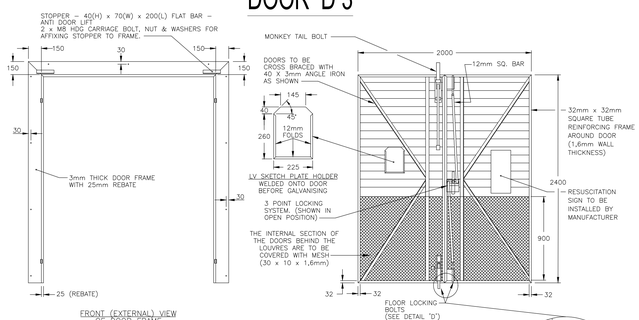
INSTITUTION NO.

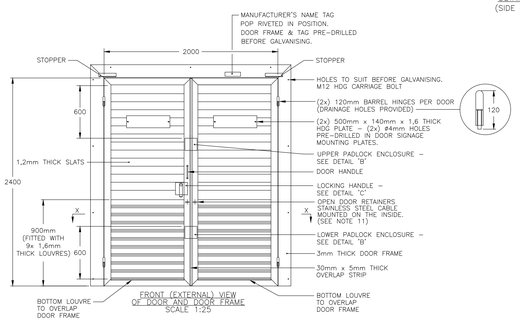


Note: *All Services positions, subject to Final Co-Ordinated Layout / Drawings.*

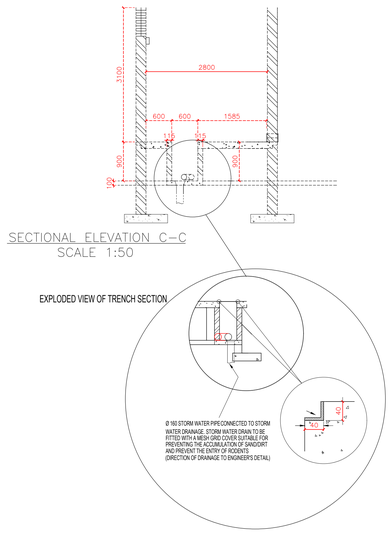
MAIN LV ELECTRICAL ROOM/ MINI-SUBSTATION AND DIESEL GENERATOR POSITION
scale - 1:50

DOOR D 3

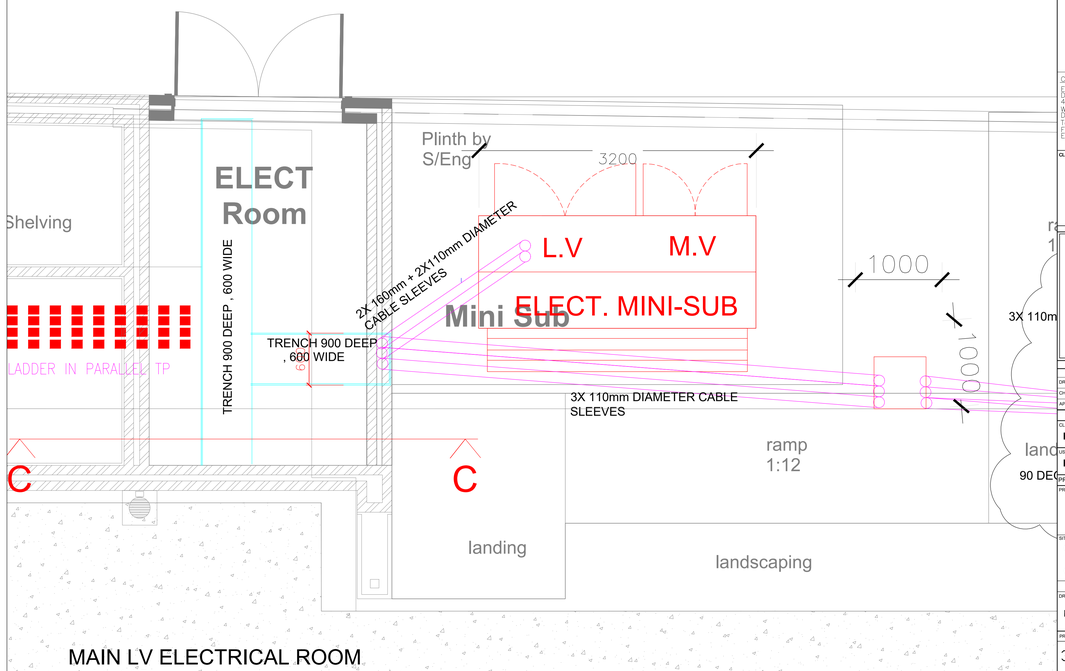




LV ROOM DOOR DETAILS
scale - 1:25



SECTION C-C
scale - 1:50



MAIN LV ELECTRICAL ROOM
scale - 1:25

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1.	11/2021	Cable tray through Pharmacy waiting area	DRAWN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR–CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("O" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT

CONSULTANT:
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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN			1:50
CHECKED	M. Bhoyat	November 2021	SHEET SIZE: A0
APPROVED			

CLIENT INFORMATION
CLIENT NAME: DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT: DEPARTMENT OF HEALTH

PROJECT INFORMATION
PROJECT DESCRIPTION:
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION:
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION
DRAWING TITLE: **STAGE 3 - DESIGN DEVELOPMENT**
MAIN LV ROOM/ MINI-SUBSTATION AND GENSET

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B10	02	D	2

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER DP = DEVIATION PLAN

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INSTITUTION NO.

LABORATORY - POWER LAYOUT

scale - 1:50

EMS PARKING

ramp

retaining wall

BLOCK 3

BLOCK 8 PLANT

BLOCK 010 - CENTRAL SPINE

300mm CABLE LADDER

2 x 300mm CABLE LADDER

4X300mm CABLE LADDER

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT

CONSULTANT:
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PO Box 352 Mkuze 3965 email mkuze@lakululand.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvubu	JUNE 2021	1:50
CHECKED	M. Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**

BLOCK 010 - CENTRAL SPINE
CABLE TRAY LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B10	01	D	2

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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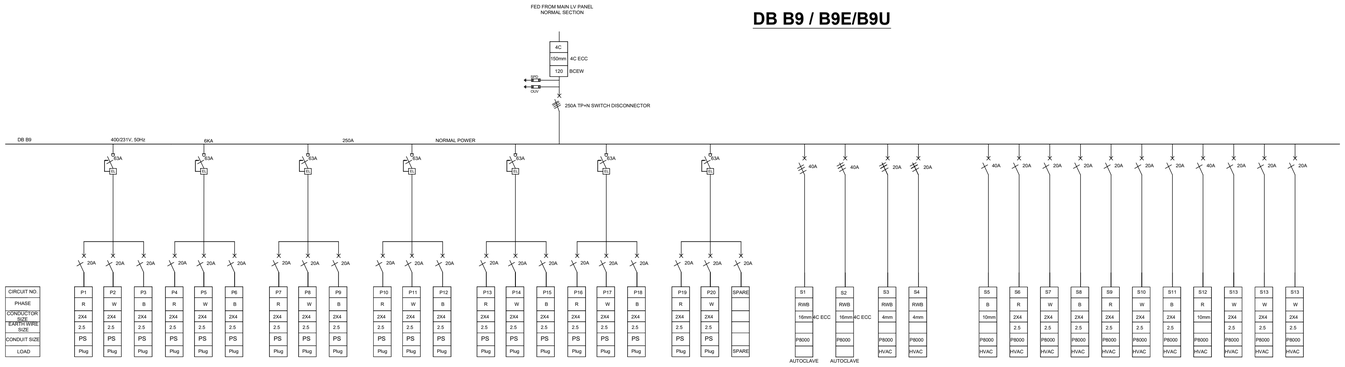
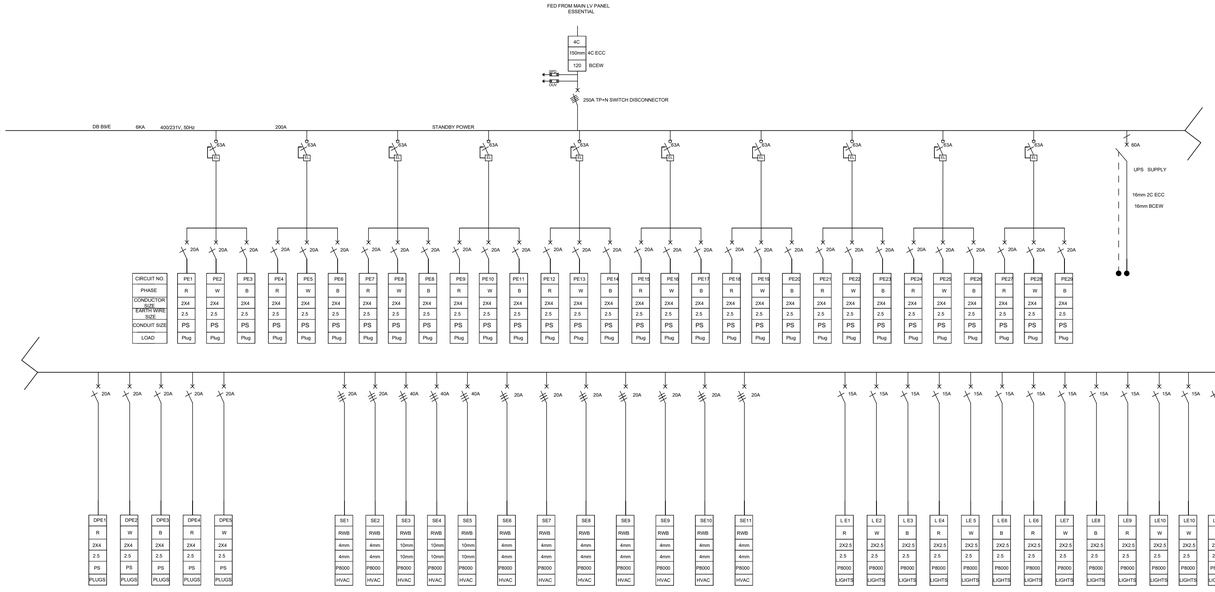
INSTITUTION NO.

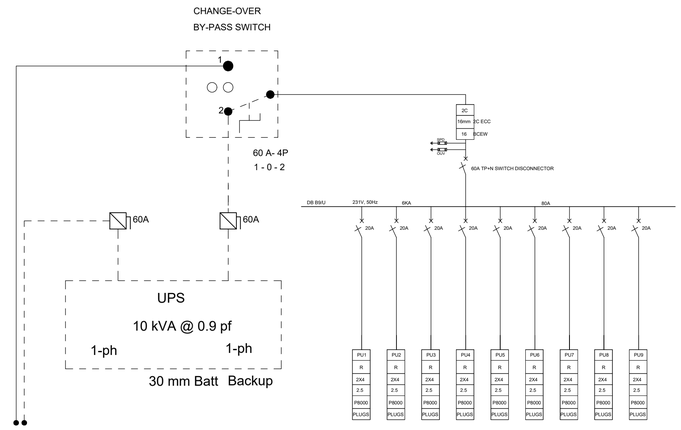
DB B9 / B9E/B9U



MECHANICAL BARRIER



MECHANICAL BARRIER



DESIGNATION	DB-Block 9 non Essential	DB-Block 9 ESSENTIAL	DESIGNATION	DB-Block 9 non Essential	DB-Block 9 ESSENTIAL	DESIGNATION	DB-Block 9 non Essential	DB-Block 9 ESSENTIAL	DESIGNATION		DB-Block 9 non Essential	DB-Block 9 ESSENTIAL	DESIGNATION	DB-Block 9 non Essential	DB-Block 9 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-9	Block-9	FAULT LEVEL	25KA	25KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	250 A	200 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

DESIGNATION	DB-Block 9 UPS	DESIGNATION	DB-Block 9 UPS	DESIGNATION	DB-Block 9 UPS	DESIGNATION	DB-Block 9 UPS	DESIGNATION	DB-Block 9 UPS
SPARE CAPACITY	30%	CABLE ENTRY	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	MAINS ISOLATOR EXPOSED	NO	COLOUR	BLUE
LOCATION	BLOCK 9	FAULT LEVEL	6KA	ACCESS	FRONT	ACCESS	FRONT	PAINT	E.P.C
FED FROM	DB B9/ ESSENTIAL	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	IP RATING	IP42	TYPED LEGEND CARD	YES INSIDE DOOR
VOLTAGE	231V	SURGE PROTECTION	YES	OUTER DOORS REQUIRED	YES	BUSBAR CURRENT DENSITY	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER
BUSBAR RATING	80 A	MOUNTING	FLOOR MOUNTED	PADLOCKABLE	YES	MATERIAL	M/S 1.6mm	CONTACTORS	LAVATO

NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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theunissen jankowitz architects

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Moolla	JUNE 2021	1:50
CHECKED	M. Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A1

CLIENT INFORMATION

CLIENT NAME:
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT:
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION:
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION:
BLOCK 09 – Laboratory Schematic

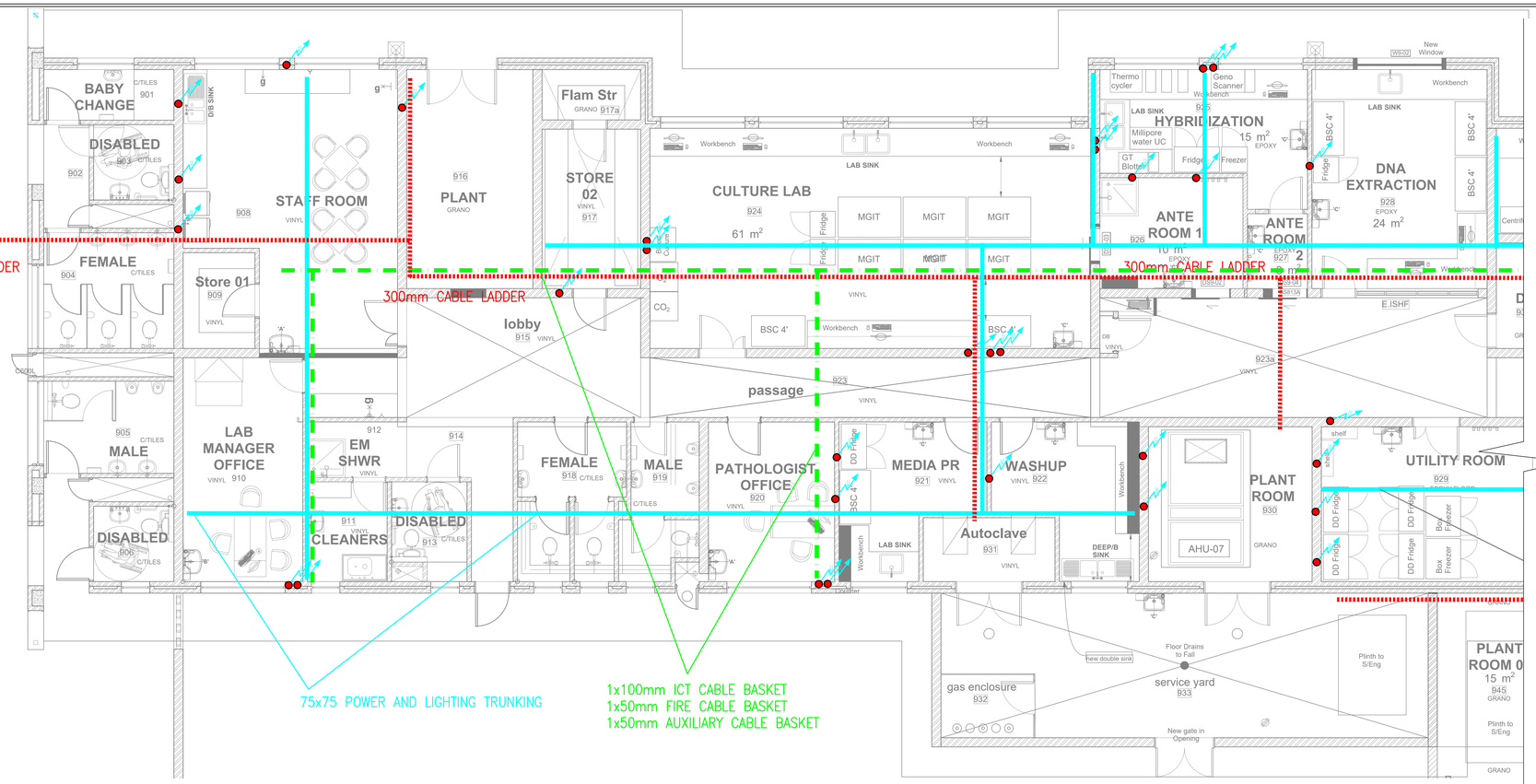
DRAWING INFORMATION

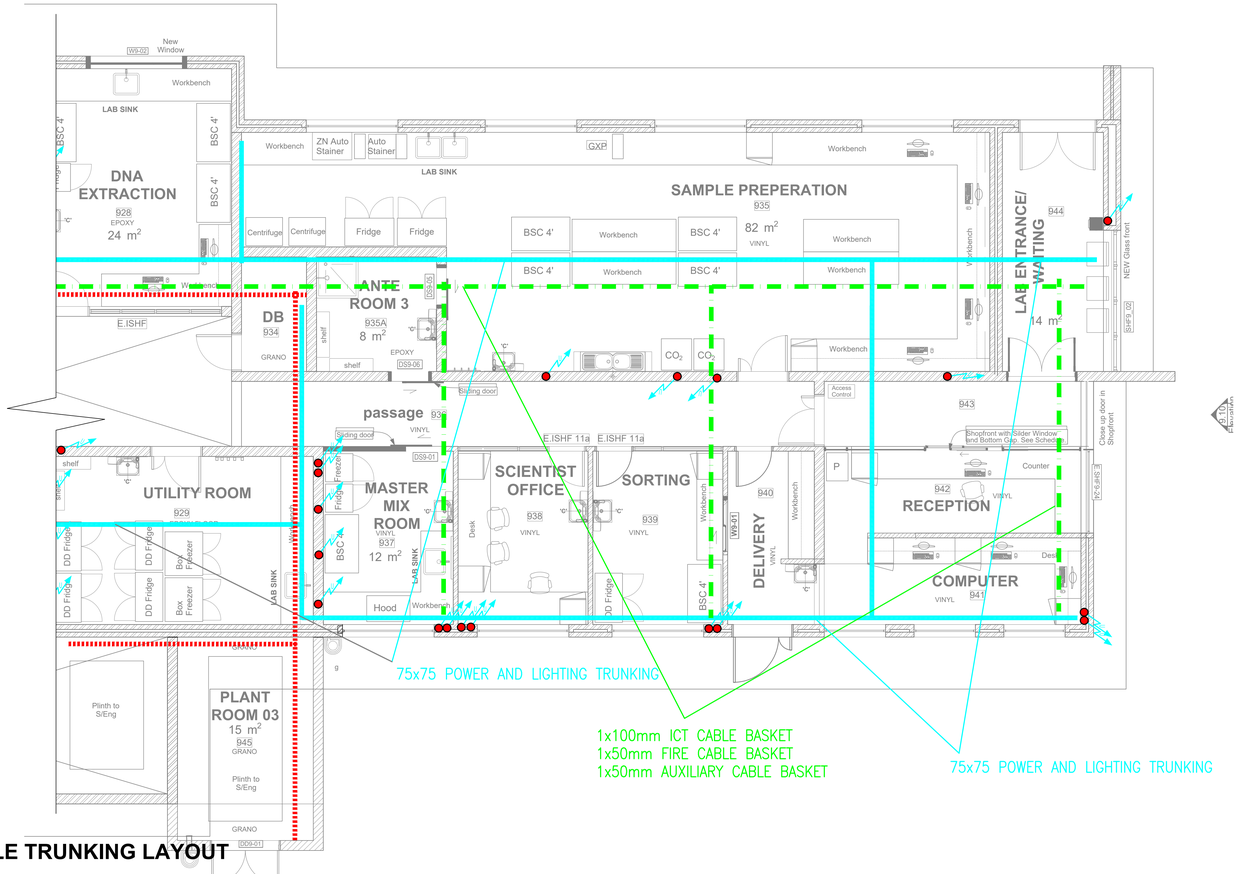
DRAWING TITLE:
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B9	04	D	0

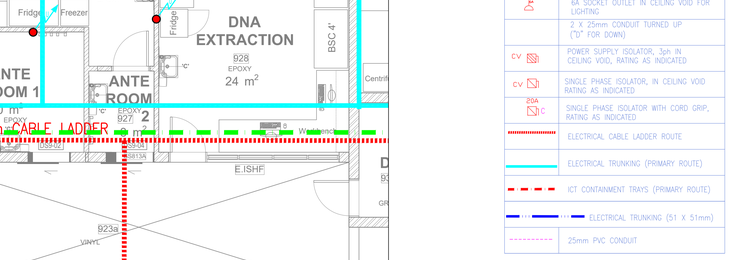
MD = MEASURED DRAWING
SP = SWITCH PLAN
PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WD = WORKING DRAWING
DP = DEVIATION PLAN

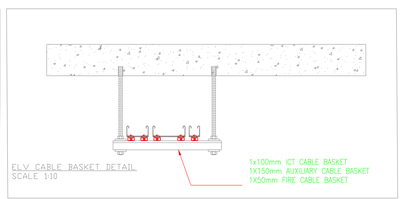
INSTITUTION NO.

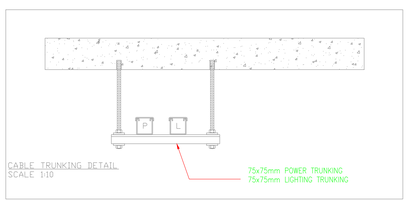


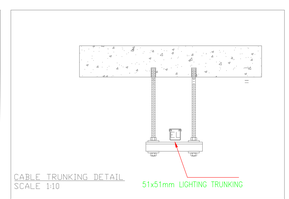


LABORATORY - CABLE TRUNKING LAYOUT
scale - 1:50

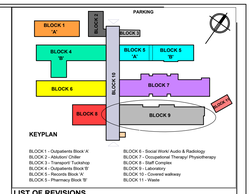








LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
4x AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
4x	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	J.Naidu	JUNE 2010	1:50
CHECKED	M. Bhagat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**

BLOCK 09 - Laboratory
CABLE TRUNKING LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B9	03	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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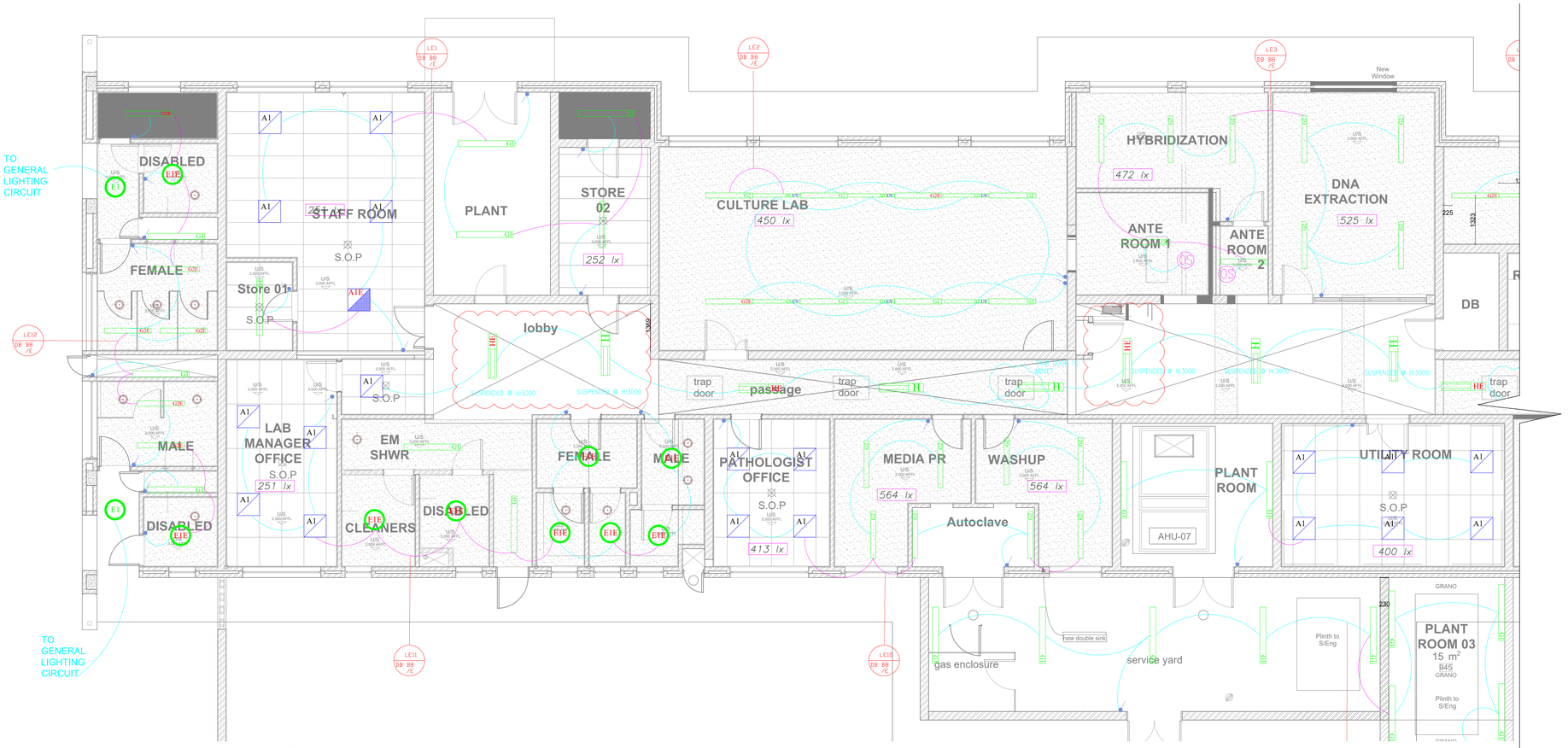
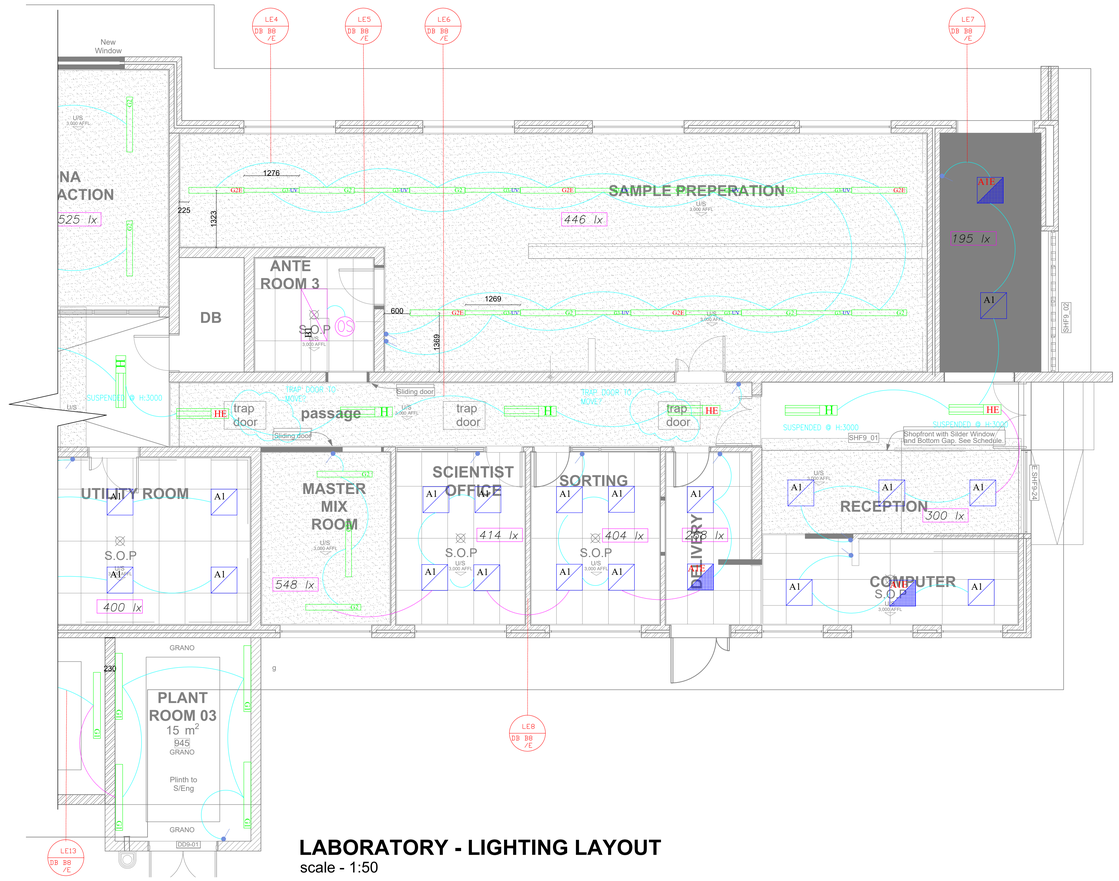




LABORATORY - LIGHTING LAYOUT
scale - 1:50

LEGEND

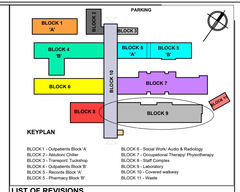
A1/E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. - A1E- DITTO WITH BATTERY BACKUP
A2/E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE - A2E-DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE - A3E-DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E-DITTO WITH BATTERY BACKUP
D2C / D2CE	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E- DITTO WITH BATTERY BACKUP
E / EE	SURFACE BULKHEAD LIGHT FITTING- E26 PHILIPS LED BULB E1E- DITTO WITH BATTERY BACKUP
H	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E / G2 / G2E	G1-1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E-DITTO WITH BATTERY BACKUP 1x 54W T5 G2-1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E-DITTO WITH BATTERY BACKUP 2x 54W T5
G3	G3-1270 x 86mm MOISTURE PROOF SURFACE LIGHT FITTING 1x 54W T5 ULTRA VIOLET LIGHT
H1 / H2	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
H3 / H4	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
J / J1	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WING REFLECTOR 2 X 28W T5
K / K1	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO-ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

NOTES:

"E" DENOTES EMERGENCY LIGHT FITTING WITH INTEGRAL BATTERY BACK UP

"H" DENOTES HEIGHT ABOVE F.F.L.

Ref DENOTES REFERENCE TO LIGHT FITTING TYPE IN LIGHT FITTING SCHEDULE. REFER TO DETAILED TECHNICAL SPECIFICATION



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1	08/2021	Bulkhead removed	MZ

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	ZMvelo	JULY 2021	1:50
CHECKED	M. Bhayat	JULY 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**

BLOCK 09 - Laboratory LIGHTING LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B9	02	D	1

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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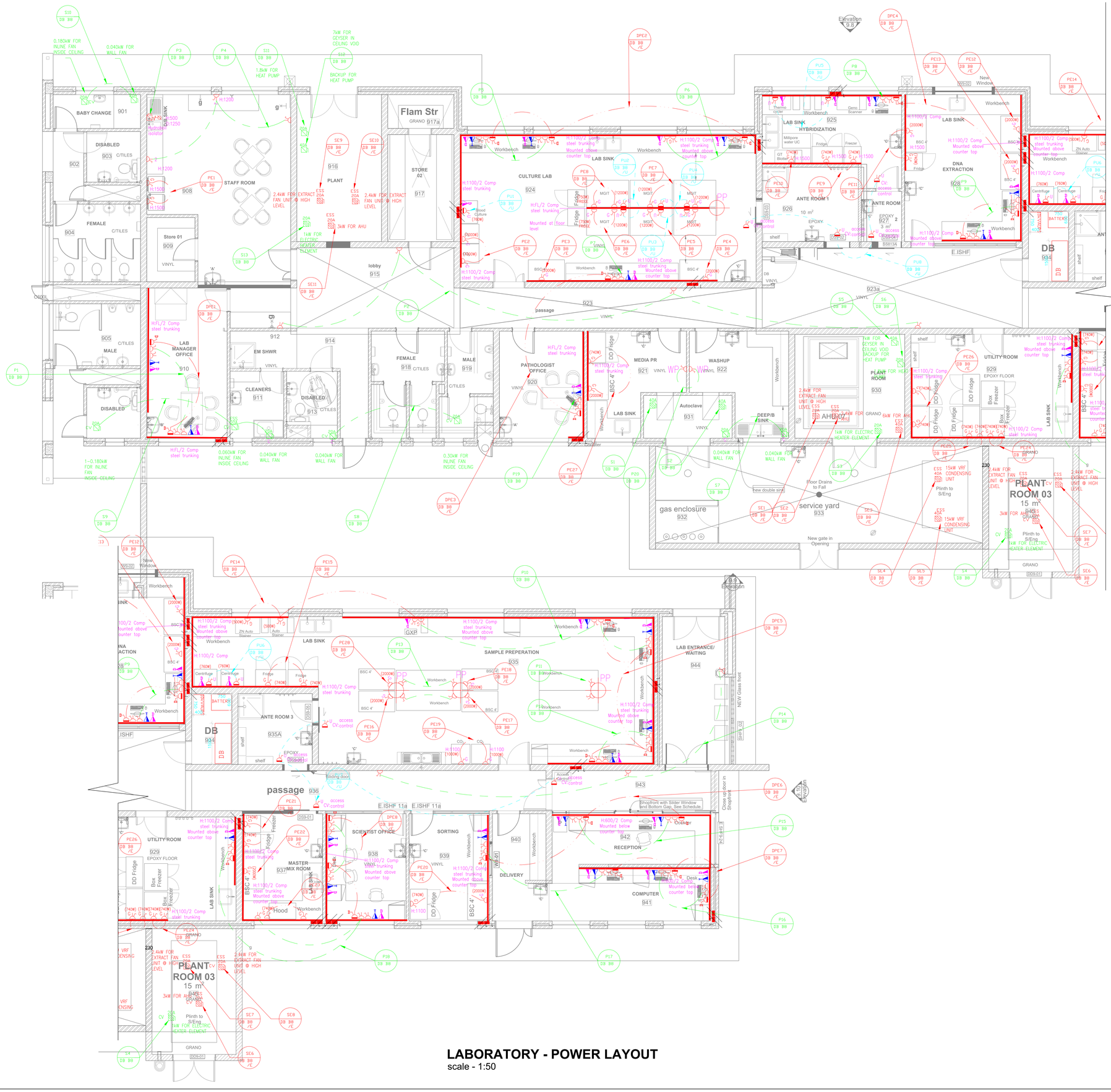

LABORATORY - POWER LAYOUT

scale - 1:50

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
H:/--COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
MEDICAL BED HEAD TRUNKING	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
G	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR--CONDITIONING
	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60Ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER--PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP "(" FOR DOWN)

PARKING

BLOCK 1 'A' · BLOCK 2 · BLOCK 3 · BLOCK 4 'B' · BLOCK 5 'A' · BLOCK 5 'B' · BLOCK 6 · BLOCK 7 · BLOCK 8 · BLOCK 9 · BLOCK 10 · BLOCK 11

KEYPLAN

BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Ablution/ Chiller
BLOCK 3 - Outpatients Workshop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Records Block 'A'
BLOCK 5 - Pharmacy Block 'B'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Mortuary/ Autopsy
BLOCK 9 - Laboratory
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Moolla	JUNE 2010	1:50
CHECKED	M. Bhayat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN DEVELOPMENT
BLOCK 09 - Laboratory
POWER Layout

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B9	01	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
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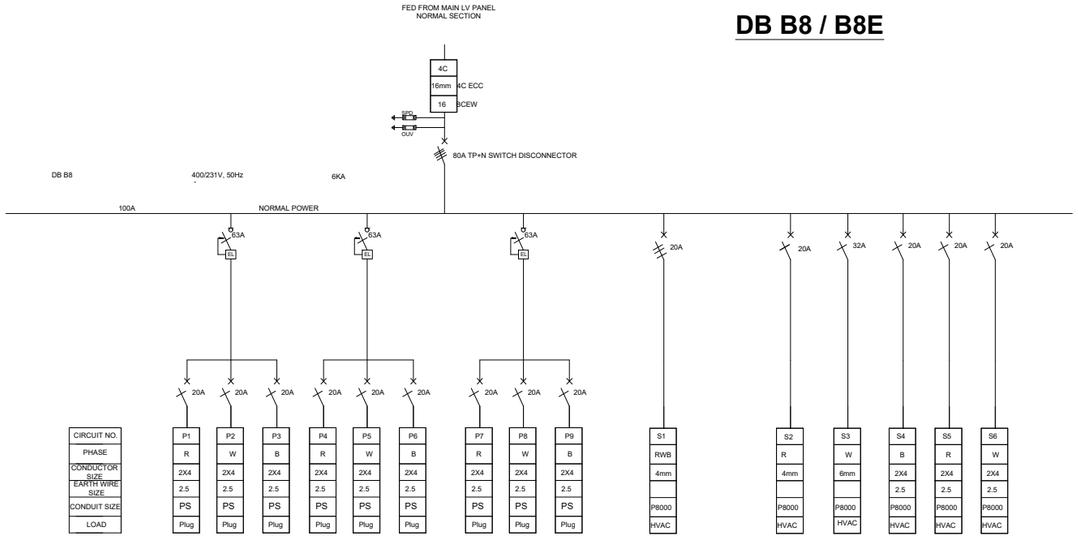
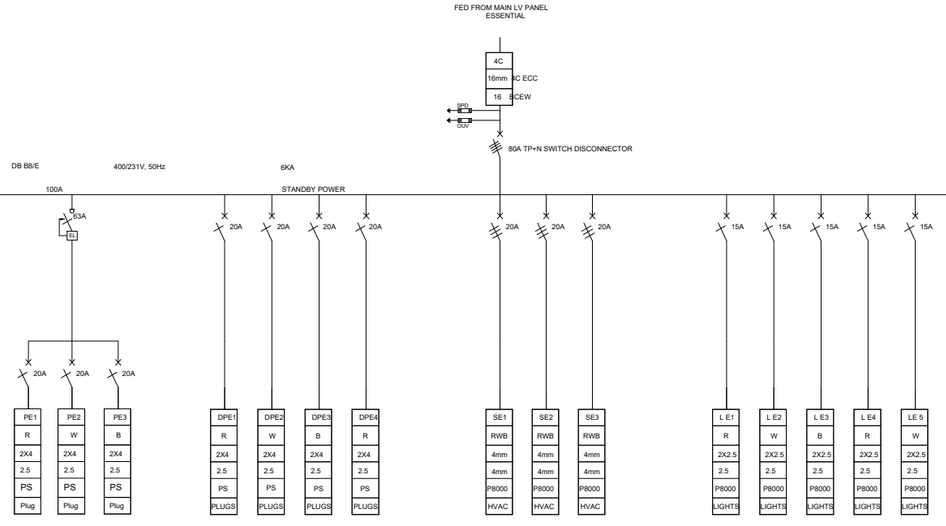
DB B8 / B8E



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 8 non Essential	DB-Block 8 ESSENTIAL	DESIGNATION	DB-Block 8 non Essential	DB-Block 8 ESSENTIAL	DESIGNATION	DB-Block 8 non Essential	DB-Block 8 ESSENTIAL	DESIGNATION	DB-Block 8 non Essential	DB-Block 8 ESSENTIAL	DESIGNATION	DB-Block 8 non Essential	DB-Block 8 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-8	Block-8	FAULT LEVEL	25KA	25KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	100 A	100 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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Thanjiwen Jankowitz
arch/iacta

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Sicela	JUNE 2021	NTS
CHECKED	M. Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 08 - STAFF COMPLEX
DB SCHEMATIC

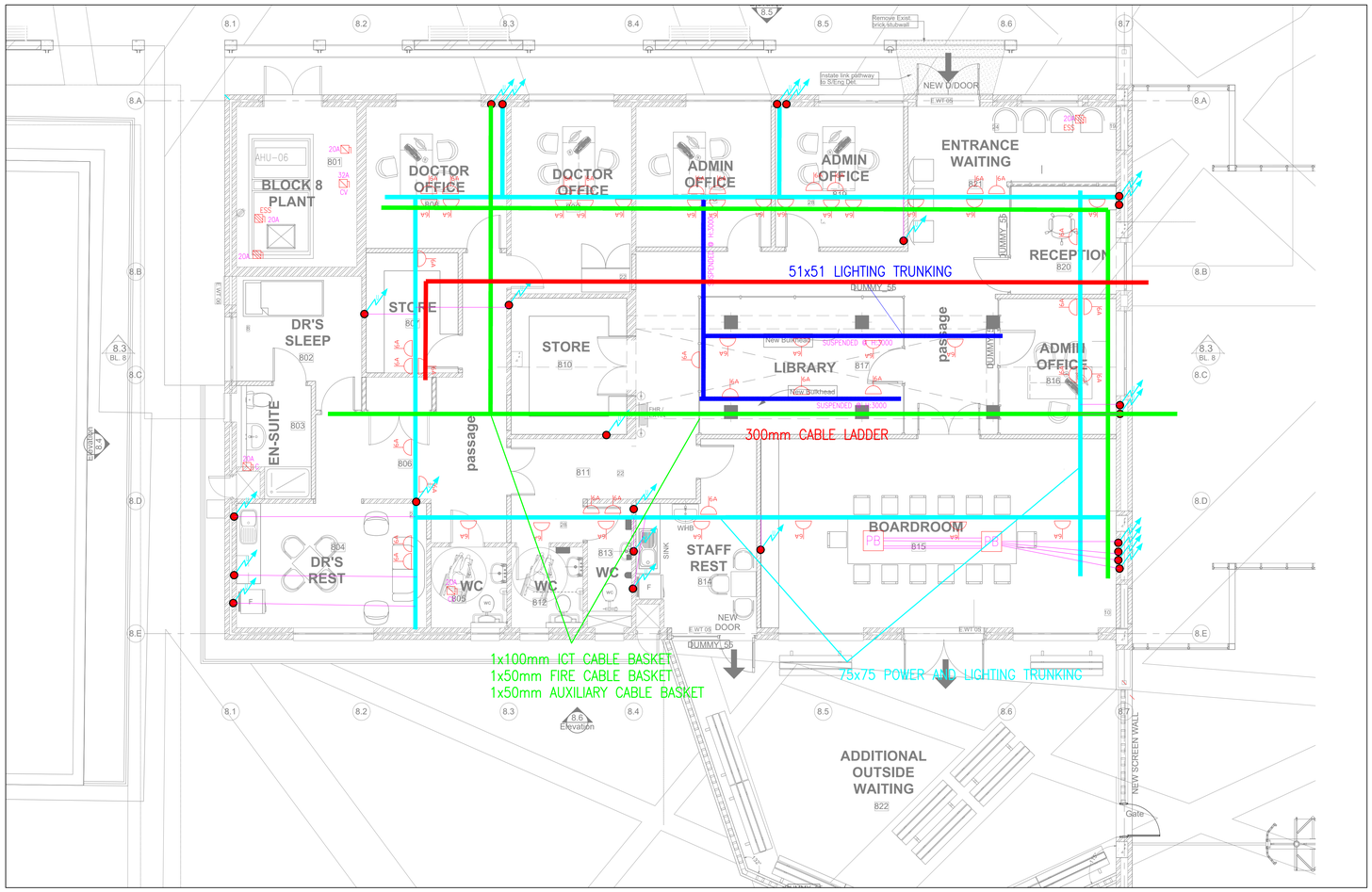
DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

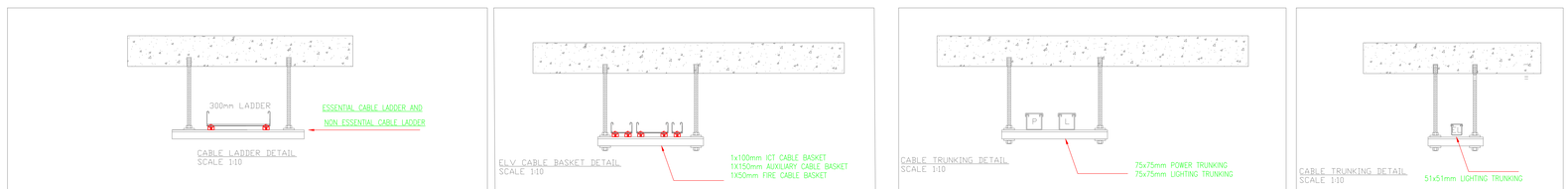
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B8	04	D	0

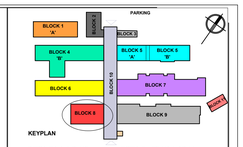
MD = MEASURED DRAWING SP = SKETCH PLAN PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.



STAFF COMPLEX - CABLE TRUNKING LAYOUT
scale - 1:50





BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Ablution/ Chiller
BLOCK 3 - Occupational Therapy Workshop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Records Block 'A'
BLOCK 5 - Pharmacy Block 'B'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Laboratory
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT

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Dihlase CONSULTING ENGINEERS Practical Innovation an EQH company

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HEAD: WORKS

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mooba	JUNE 2010	1:50
CHECKED	M. Bhayat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION
CLIENT NAME:
DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT:
DEPARTMENT OF HEALTH

PROJECT INFORMATION
PROJECT DESCRIPTION:
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT
SITE DESCRIPTION:
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION
DRAWING TITLE: **STAGE 3 - DESIGN DEVELOPMENT**
BLOCK 08 - Staff Complex CABLE TRUNKING Layout

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B8	03	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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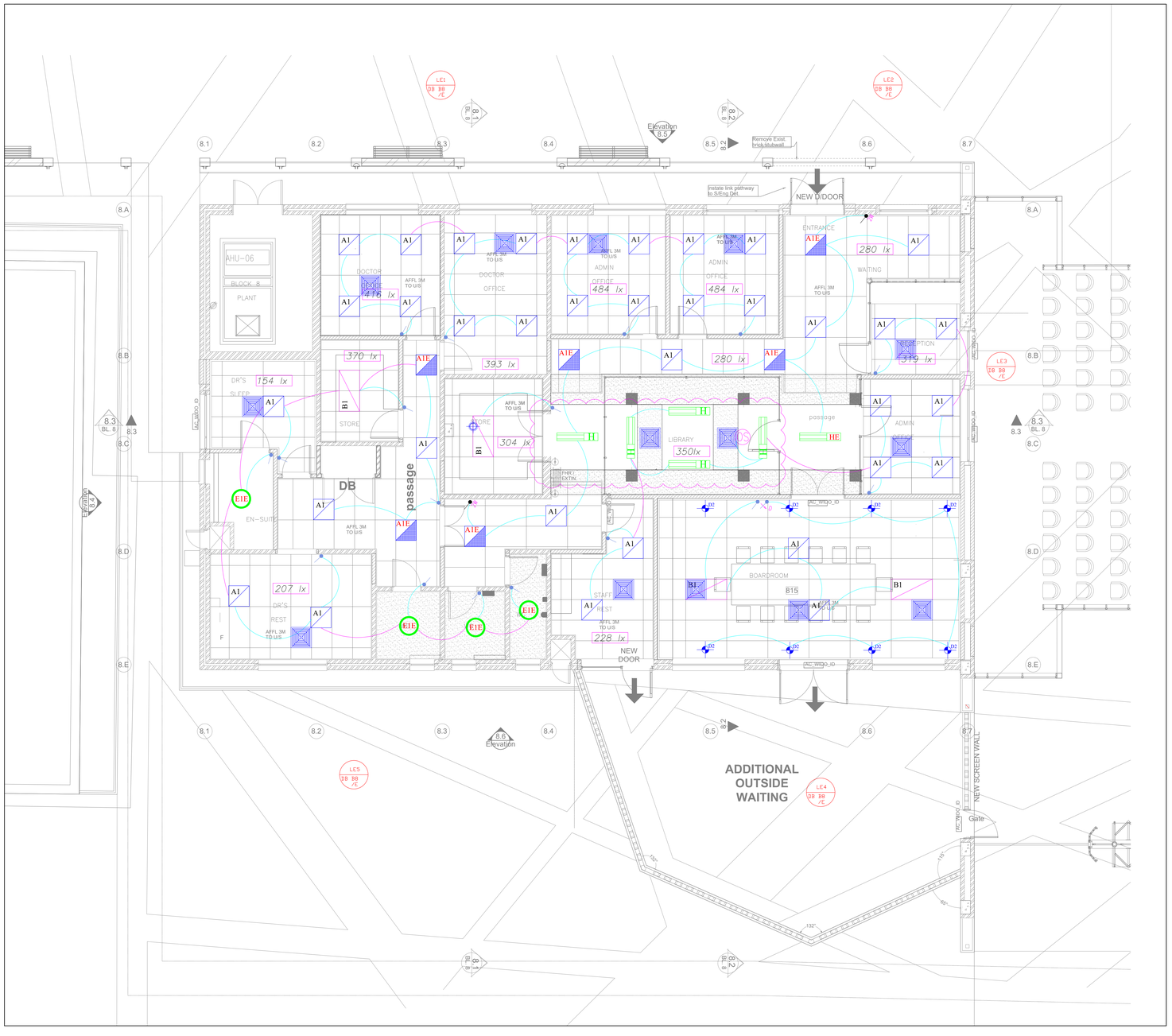
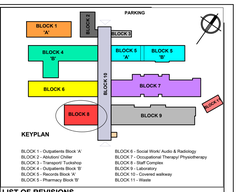
INSTITUTION NO.



STAFF COMPLEX- LIGHTING LAYOUT

scale - 1:50



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

LEGEND

A1 / A1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER
B1E	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP
B2	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE
B2E	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
H	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
H	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
H	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WING REFLECTOR 2 X 28W T5
K	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
M	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
2	2 LEVER, 1 WAY LIGHT SWITCH
2	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
OS	OCCUPANCY SENSOR
PC	PHOTO–ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mkoda	JULY 2021	1:50
CHECKED	M. Bhayat	JULY 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL
-TB COMPLEX
COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**
BLOCK 08 - Staff Complex
LIGHTING Layout

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B8	02	D	1

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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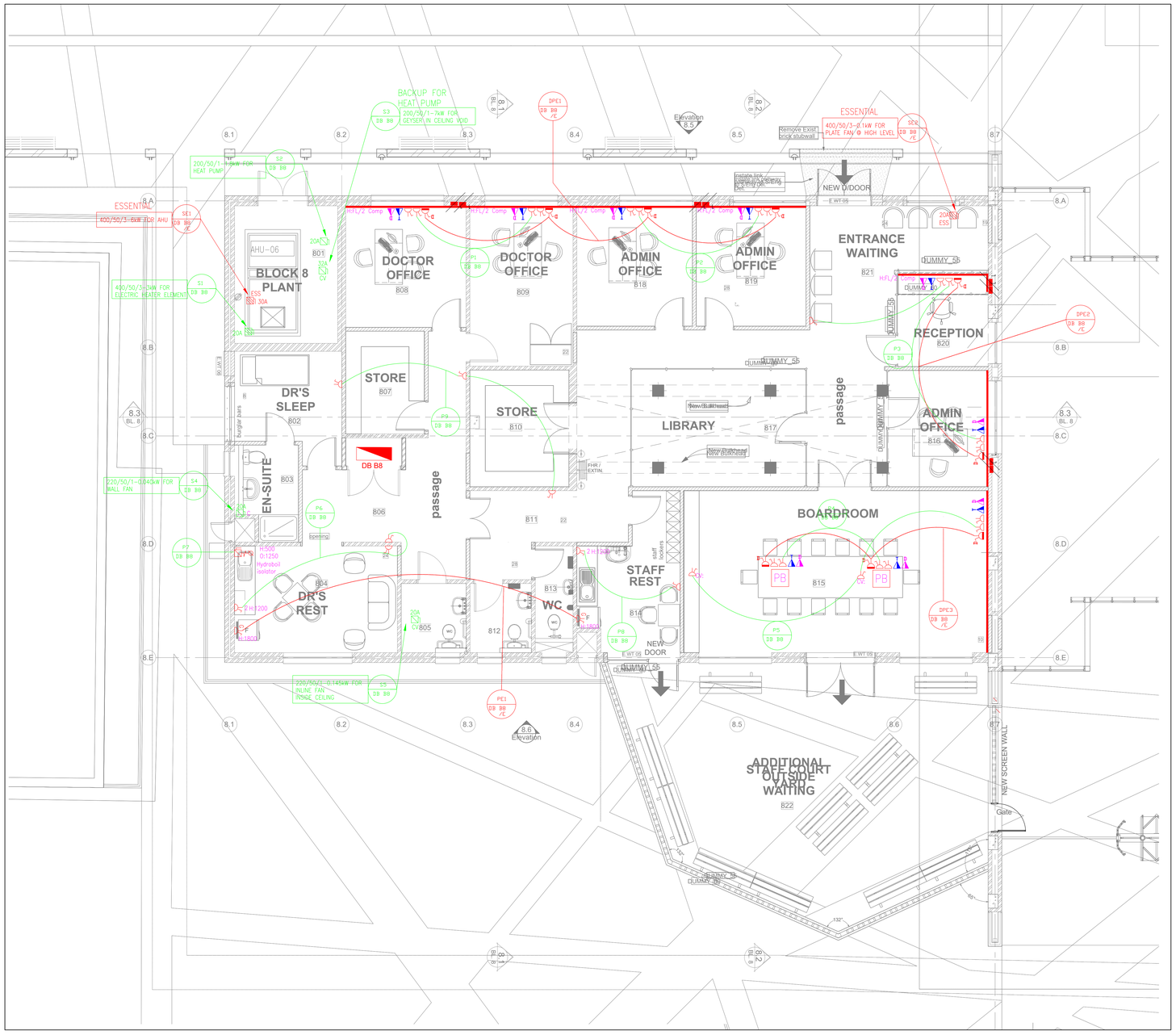
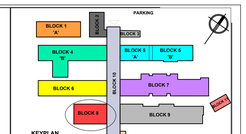


STAFF COMPLEX- POWER LAYOUT
scale - 1:50

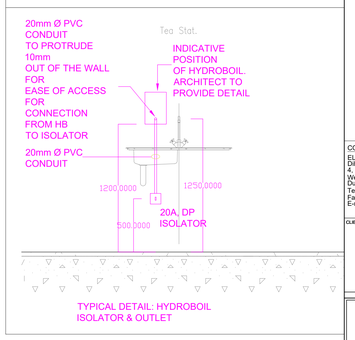


LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
H/-COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
S	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
Ht:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)



TYPICAL DETAIL: HYDROBOIL ISOLATOR & OUTLET

CONSULTANT:
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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mxolisi	JUNE 2010	1:50
CHECKED	M. Bhayat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN DEVELOPMENT
BLOCK 08 - Staff Complex POWER Layout

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B8	01	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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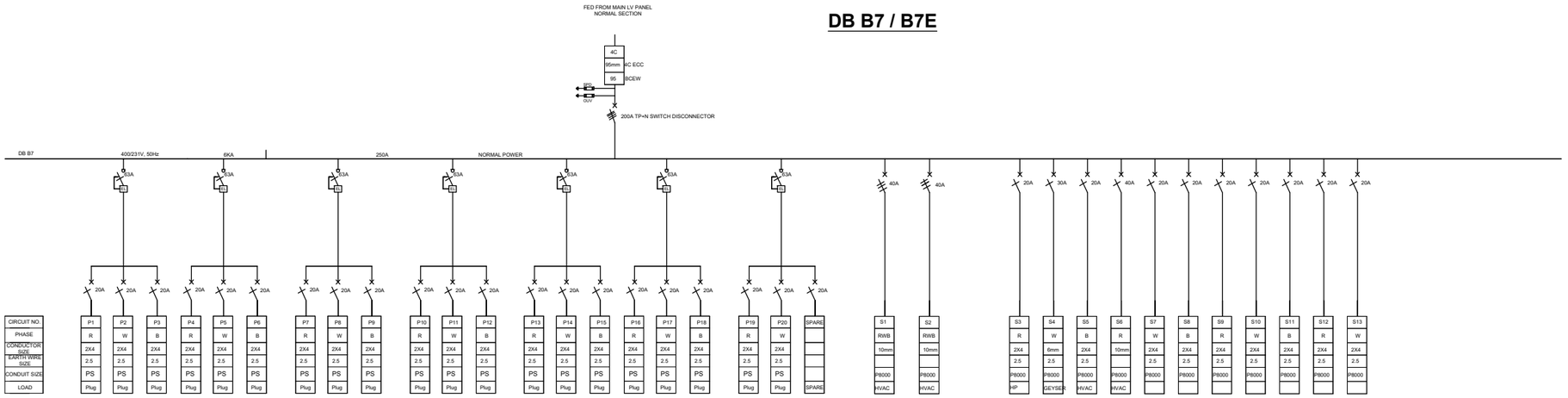
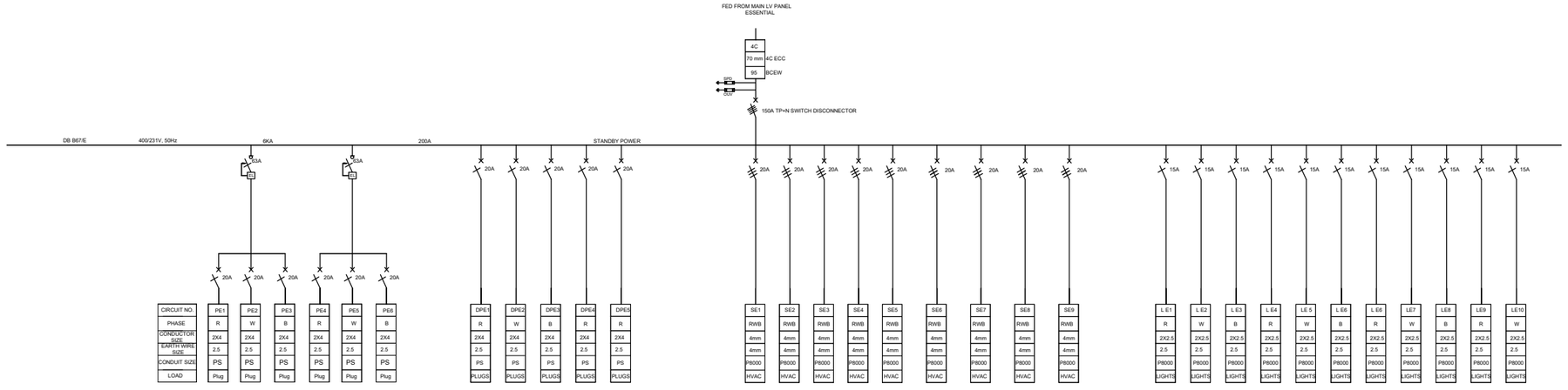
INSTITUTION NO.

DB B7 / B7E



MECHANICAL BARRIER



DESIGNATION	DB-Block 7 non Essential	DB-Block 7 ESSENTIAL	DESIGNATION	DB-Block 7 non Essential	DB-Block 7 ESSENTIAL	DESIGNATION	DB-Block 7 non Essential	DB-Block 7 ESSENTIAL	DESIGNATION	DB-Block 7 non Essential	DB-Block 7 ESSENTIAL	DESIGNATION	DB-Block 7 non Essential	DB-Block 7 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-7	Block-7	FAULT LEVEL	25KA	25KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	250 A	200 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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CLIENT:

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theunissen jonkeltz architects

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelo	JUNE 2021	1:50
CHECKED	M. Bhuyat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL
-TB COMPLEX
COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 07 - OT/Physio
DB SCHEMATIC

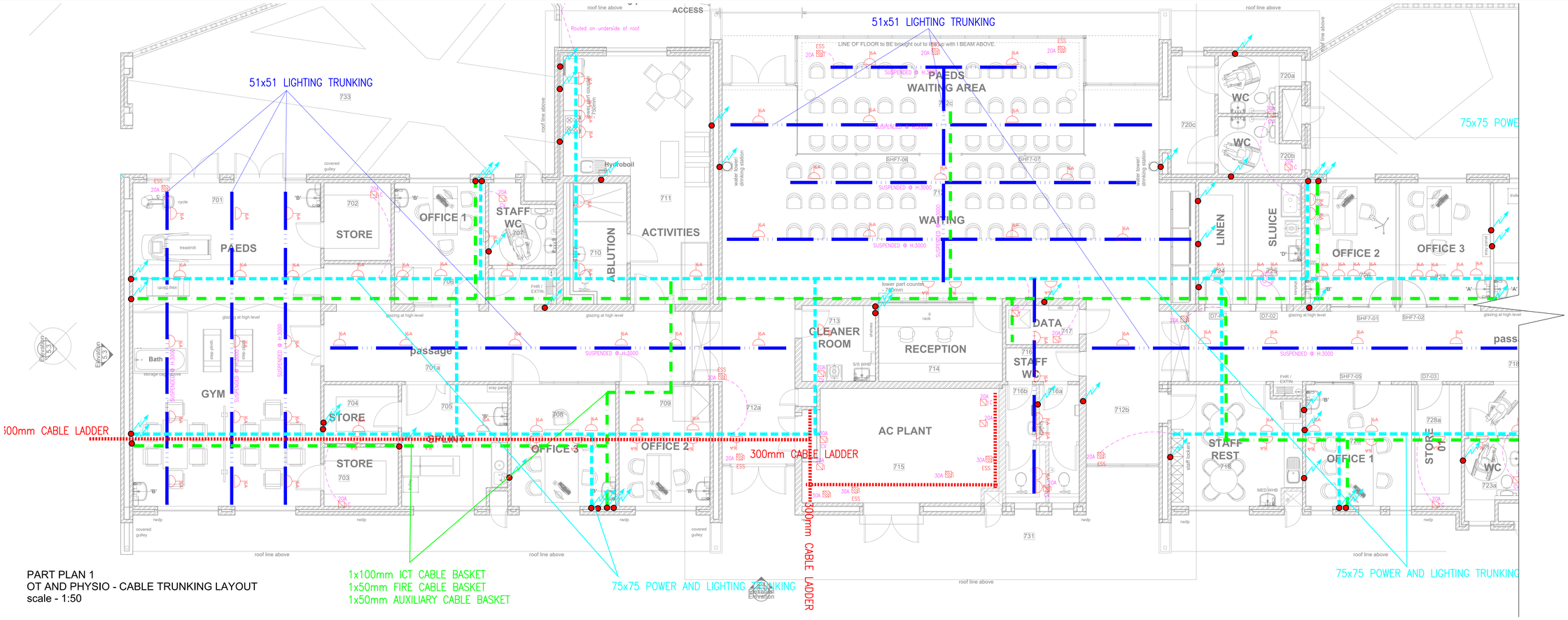
DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

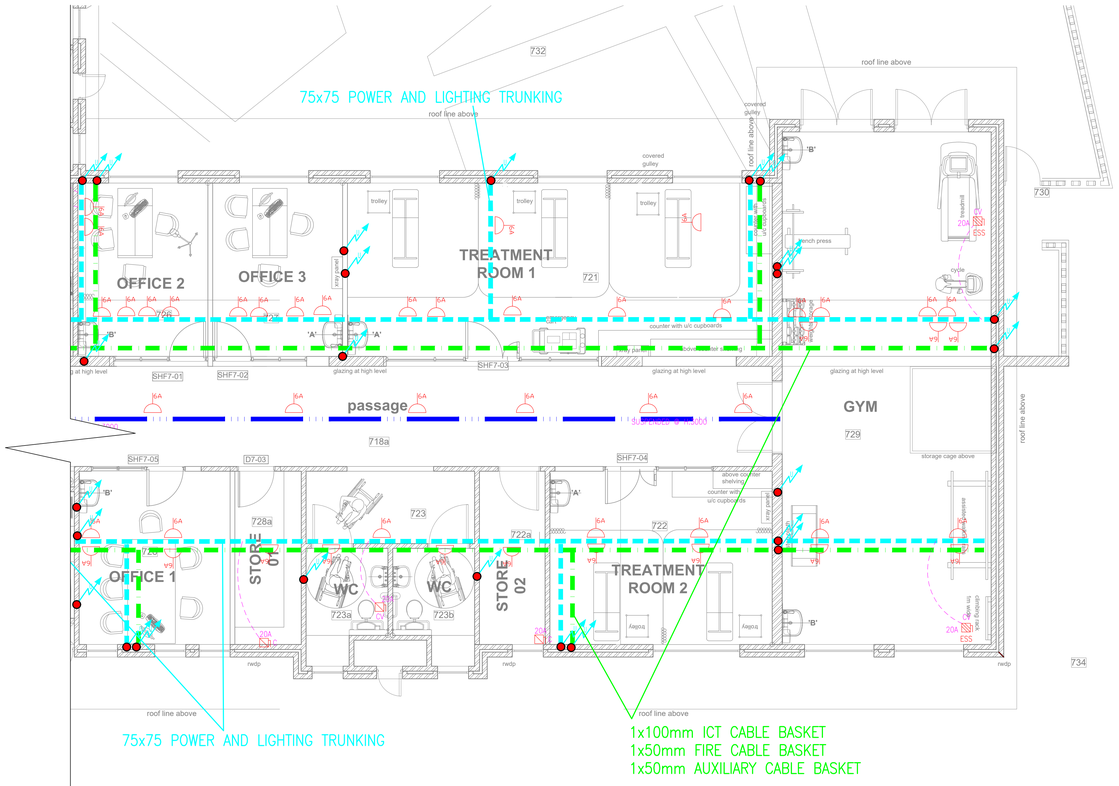
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B7	04	D	0

WD = MEASURED DRAWING
SP = SKETCH PLAN
PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WID = WORKING DRAWING
DP = DEVIATION PLAN

INSTITUTION NO.

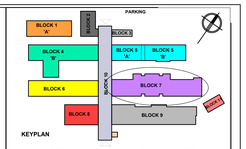


PART PLAN 1
OT AND PHYSIO - CABLE TRUNKING LAYOUT
scale - 1:50



PART PLAN 2
OT AND PHYSIO - CABLE TRUNKING LAYOUT
scale - 1:50

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	ZWOOLA	07 Sep 2020	1:50
CHECKED	M.BHAYAT	07 Sep 2020	SHEET SIZE
APPROVED	M.BHAYAT		A0

CLIENT INFORMATION
CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT
DEPARTMENT OF HEALTH
PROJECT INFORMATION
PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT
SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.
DRAWING INFORMATION
DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**
BLOCK 07 - OT/ Physio
CABLE TRUNKING LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B7	03	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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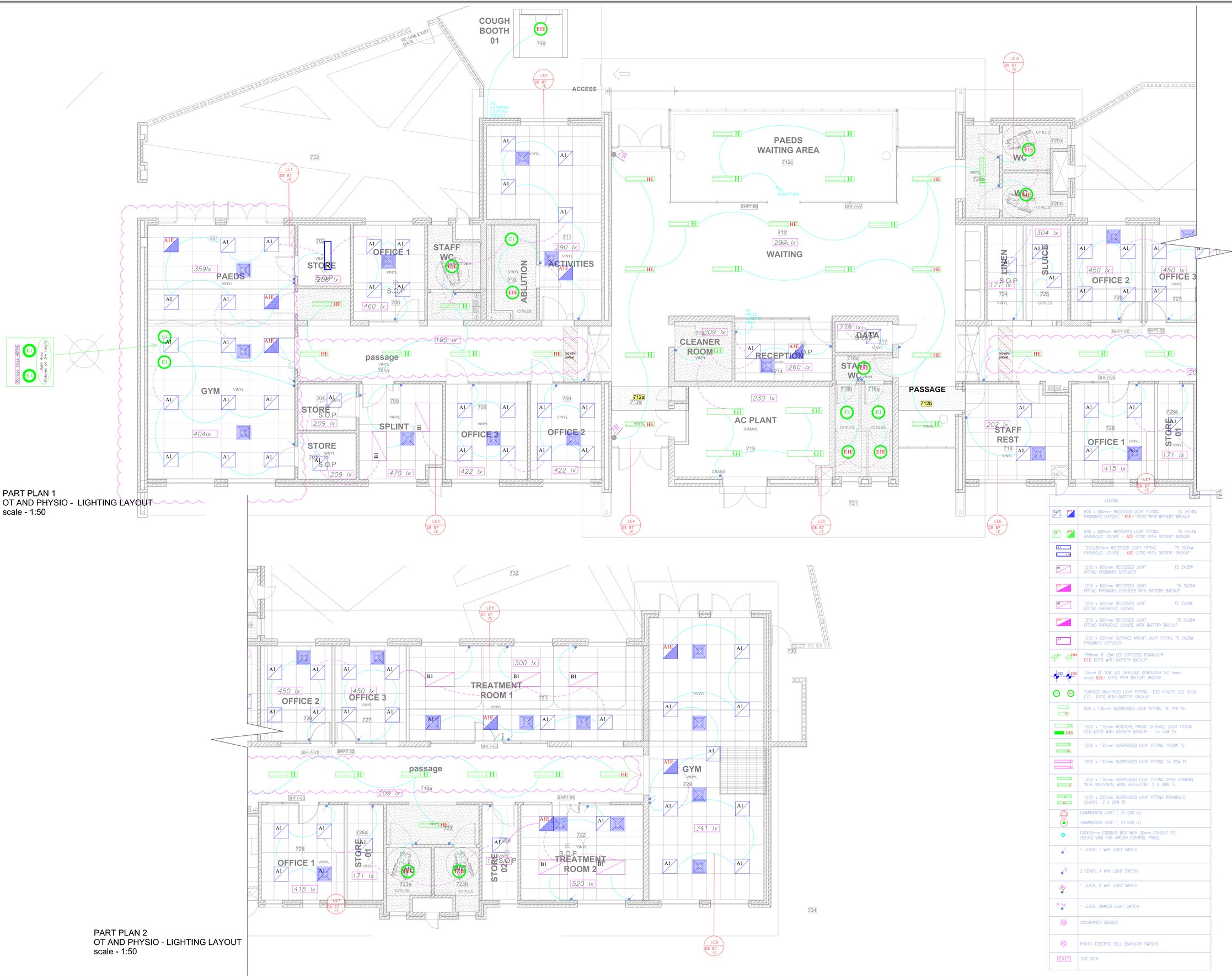
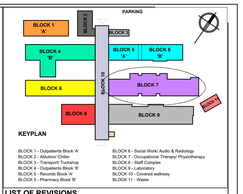
INSTITUTION NO.



PART PLAN 1
OT AND PHYSIO - LIGHTING LAYOUT
scale - 1:50

PART PLAN 2
OT AND PHYSIO - LIGHTING LAYOUT
scale - 1:50



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1.	08/2021	ceiling grids added and bulkheads removed	MZ

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mzolla	JUNE 2010	1:50
CHECKED	M. Bhayat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.

DRAWING INFORMATION

DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**

BLOCK 07 - OT/ Physio LIGHTING LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B7	02	D	1

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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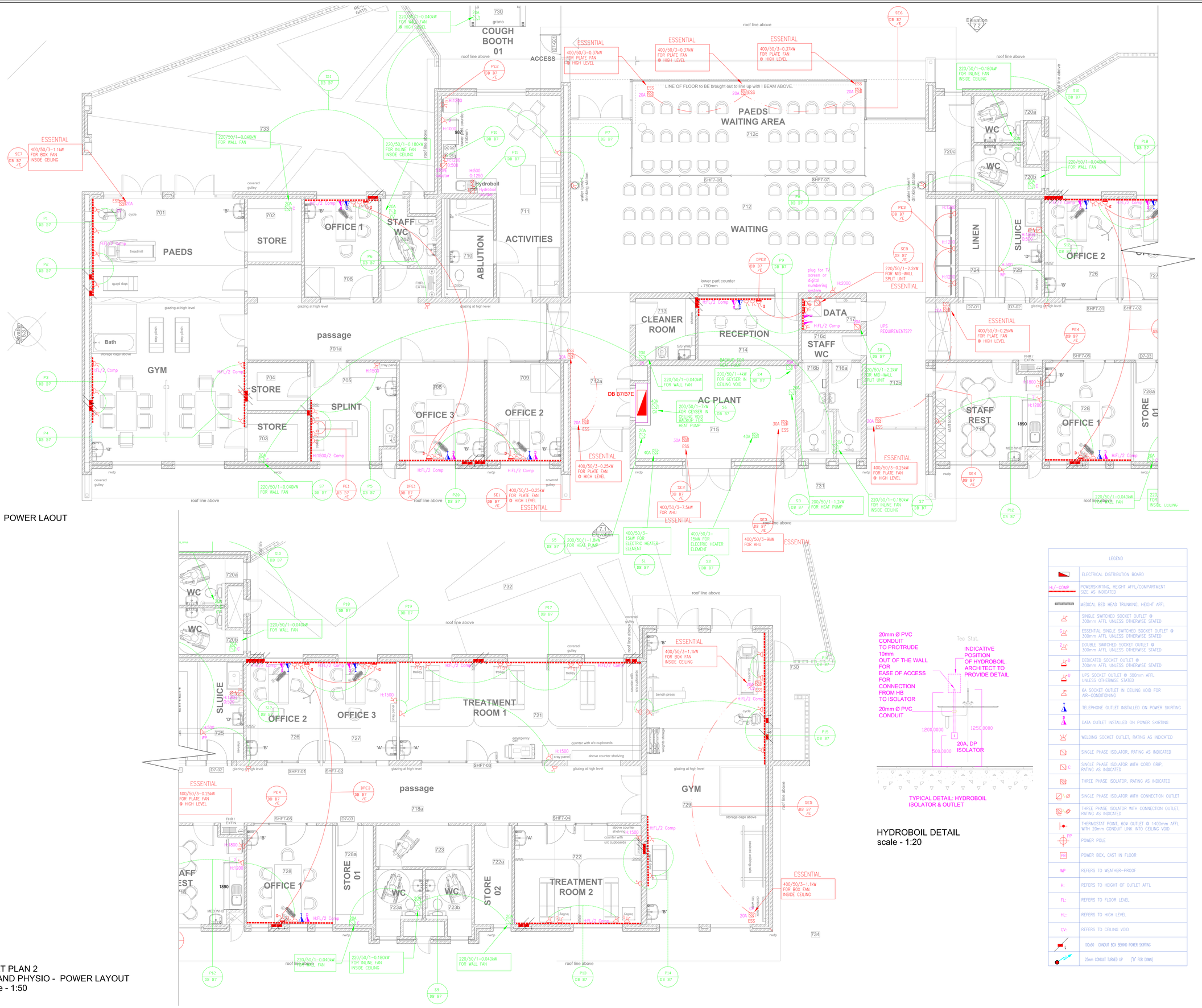
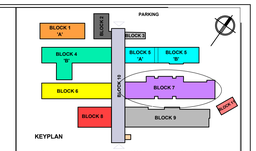


PART PLAN 1
OT AND PHYSIO - POWER LAOUT
scale - 1:50

PART PLAN 2
OT AND PHYSIO - POWER LAYOUT
scale - 1:50

HYDROBOIL DETAIL
scale - 1:20



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
H:/--COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
G	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR--CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60Ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER--PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("I" FOR DOWN)

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvubu	JUNE 2010	1:50
CHECKED	M. Bhayat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION
CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT
DEPARTMENT OF HEALTH
PROJECT INFORMATION
PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT
SITE DESCRIPTION
CONSOLIDATED SITE OF SUB 199, SUB TBH2, SUB 1 OF TBH, SUB 180 AND SUB TBH OF C OF THE FARM SPRINGFIELD NO. 802.
DRAWING INFORMATION
DRAWING TITLE **STAGE 3 - DESIGN DEVELOPMENT**
BLOCK 07 - OT/ Physio POWER LAYOUT

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B7	01	D	0

SP = SKETCH PLAN MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
DD = DESIGN DEVELOPMENT T = TENDER D = DESIGN

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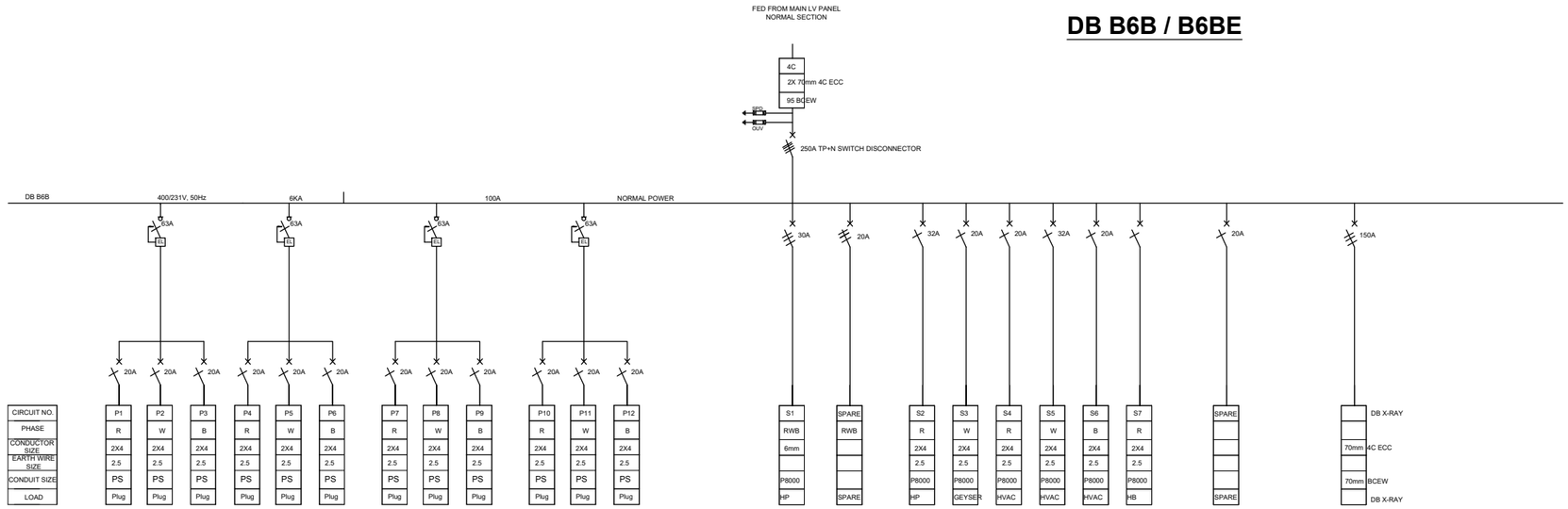
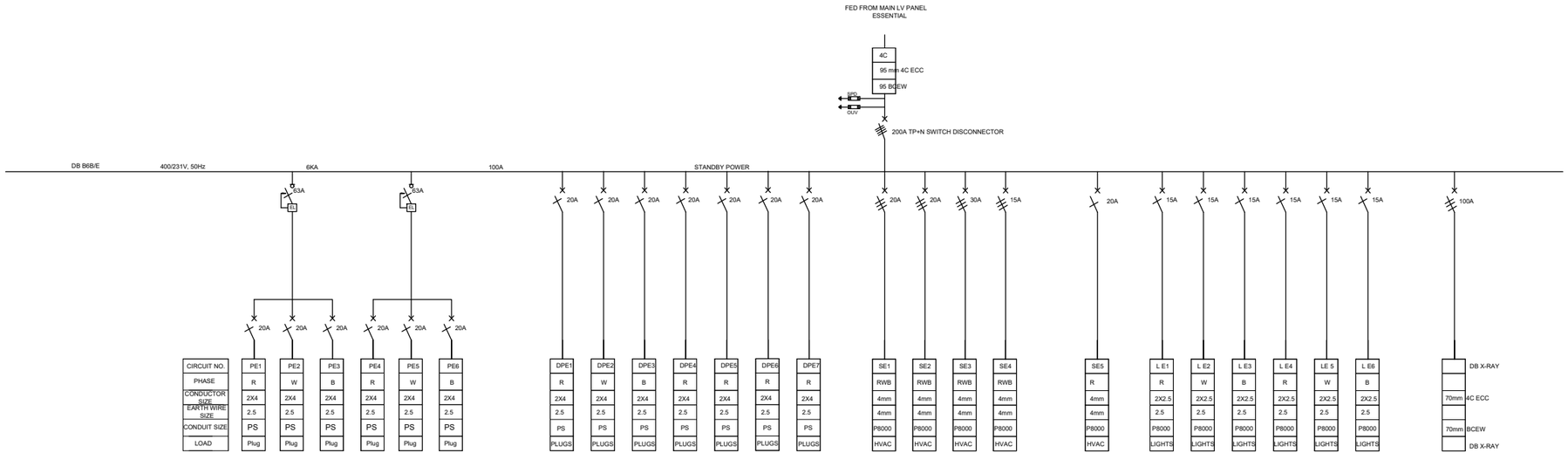
INSTITUTION NO.

DB B6B / B6BE



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 6B non Essential	DB-Block 6B ESSENTIAL	DESIGNATION	DB-Block 6B non Essential	DB-Block 6B ESSENTIAL	DESIGNATION	DB-Block 6B non Essential	DB-Block 6B ESSENTIAL	DESIGNATION	DB-Block 6B non Essential	DB-Block 6B ESSENTIAL	DESIGNATION	DB-Block 6B non Essential	DB-Block 6B ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-6	Block-6	FAULT LEVEL	25KA	25KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	300 A	250 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	**Z.Mnolo**	**JUNE 2021**	NTS
CHECKED	**M. Bhayat**	**JUNE 2021**	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 06B/C - AUDIO/RADIOLOGY DB SCHEMATIC

DRAWING INFORMATION

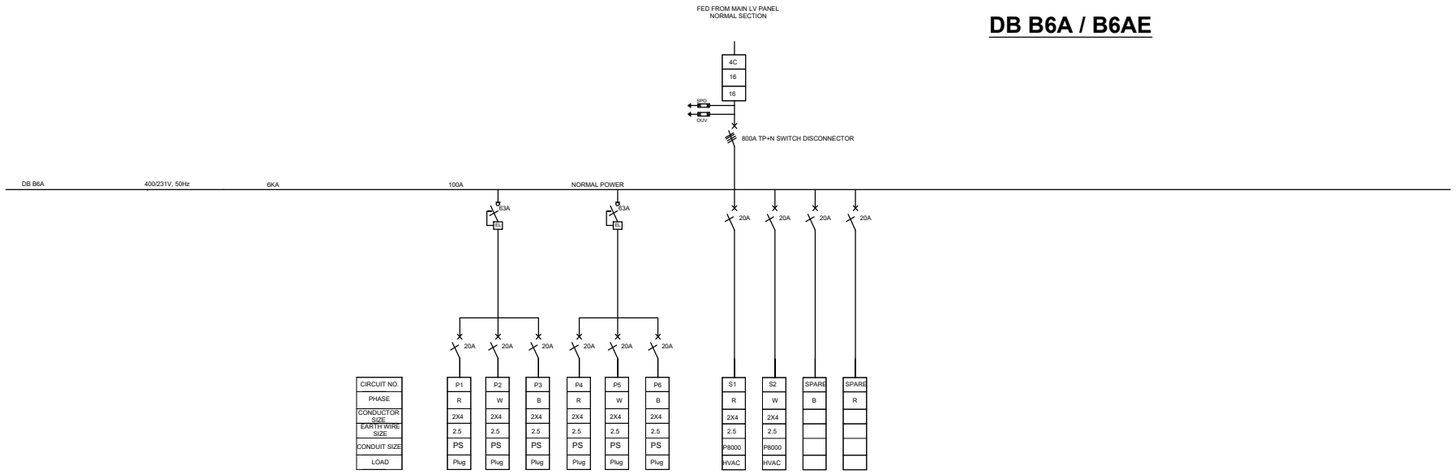
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B6	04	D	0

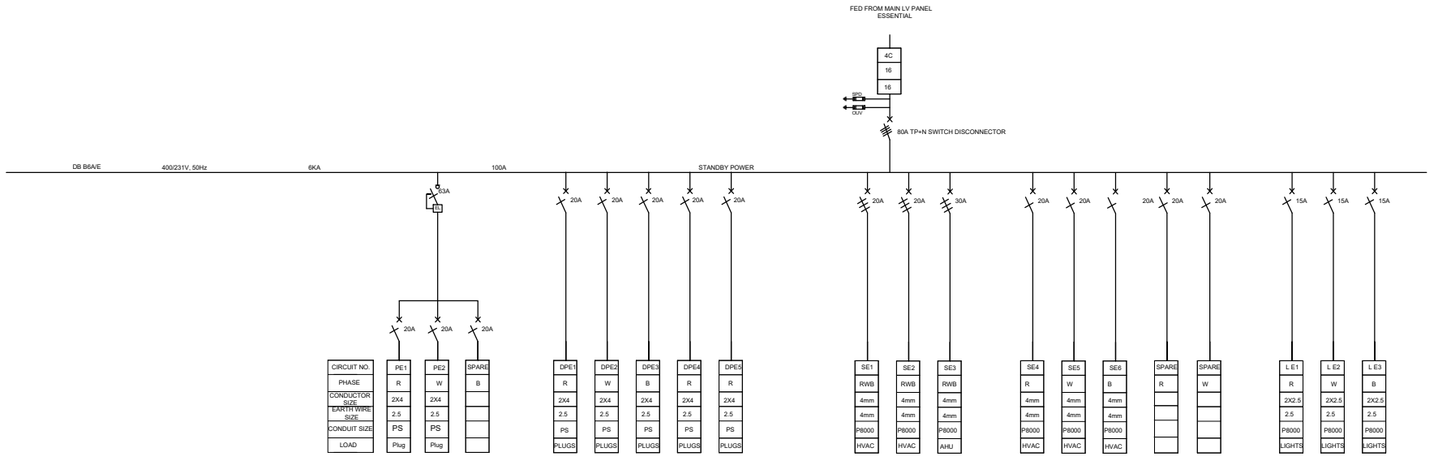
SD = MEASURED DRAWING SP = SKETCH PLAN PRE = PRELIMINARY
T = TENDER D = DESIGN
MA = MUNICIPAL APPROVAL WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.

DB B6A / B6AE



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

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MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 6A non Essential	DB-Block 6A ESSENTIAL	DESIGNATION	DB-Block 6A non Essential	DB-Block 6A ESSENTIAL	DESIGNATION	DB-Block 6A non Essential	DB-Block 6A ESSENTIAL	DESIGNATION	DB-Block 6A non Essential	DB-Block 6A ESSENTIAL	DESIGNATION	DB-Block 6A non Essential	DB-Block 6A ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-6	Block-6	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
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BUSBAR RATING	100 A	100 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	**Z.Mnisi**	**JUNE 2021**	NTS
CHECKED	**M. Bhuyel**	**JUNE 2021**	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 06A - SOCIAL WORK DB SCHEMATIC

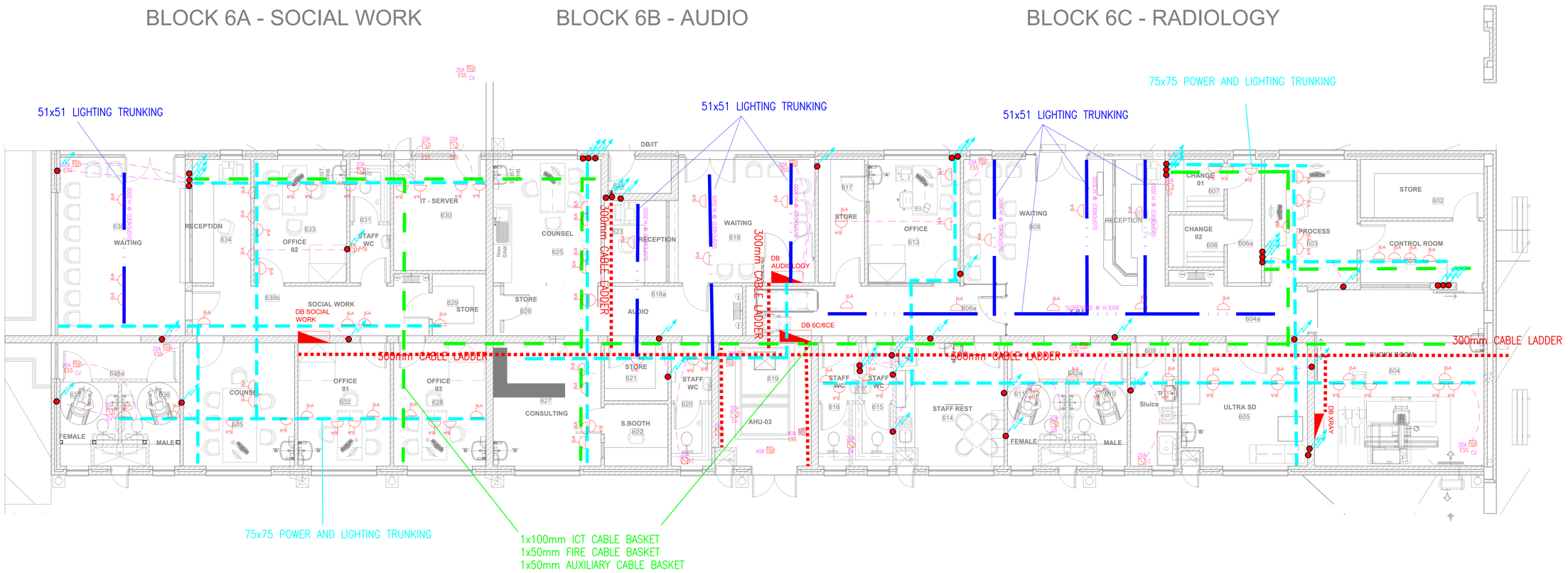
DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

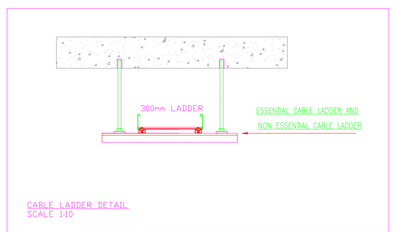
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B6	03	D	0

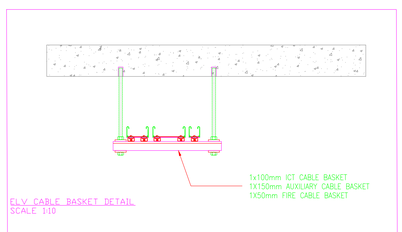
SD = MEASURED DRAWING
SP = SKETCH PLAN
PRE = PRELIMINARY
M = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WD = WORKING DRAWING
DP = DEVIATION PLAN

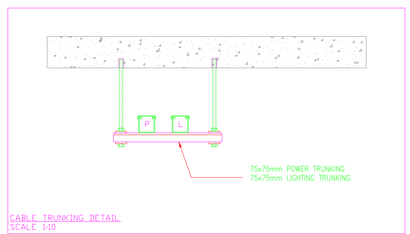
INSTITUTION NO.

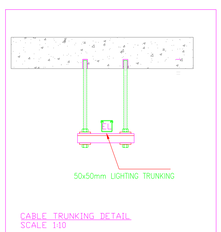


SOCIAL WORKER/AUDIO & X-RAY - CABLE TRUNKING LAYOUT
scale - 1:50

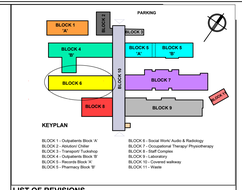








LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
6A AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
6A	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A IC	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (51 X 51mm)
	25mm PVC CONDUIT



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PO Box 352 Mtuze 3965 email mtuze@tjsnorthland.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mxolisi	JUNE 2010	1:50
CHECKED	M. Bhoyat	JUNE 2010	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 06 - Social Work/ Audio/ Radiology Cable Trunking Layout

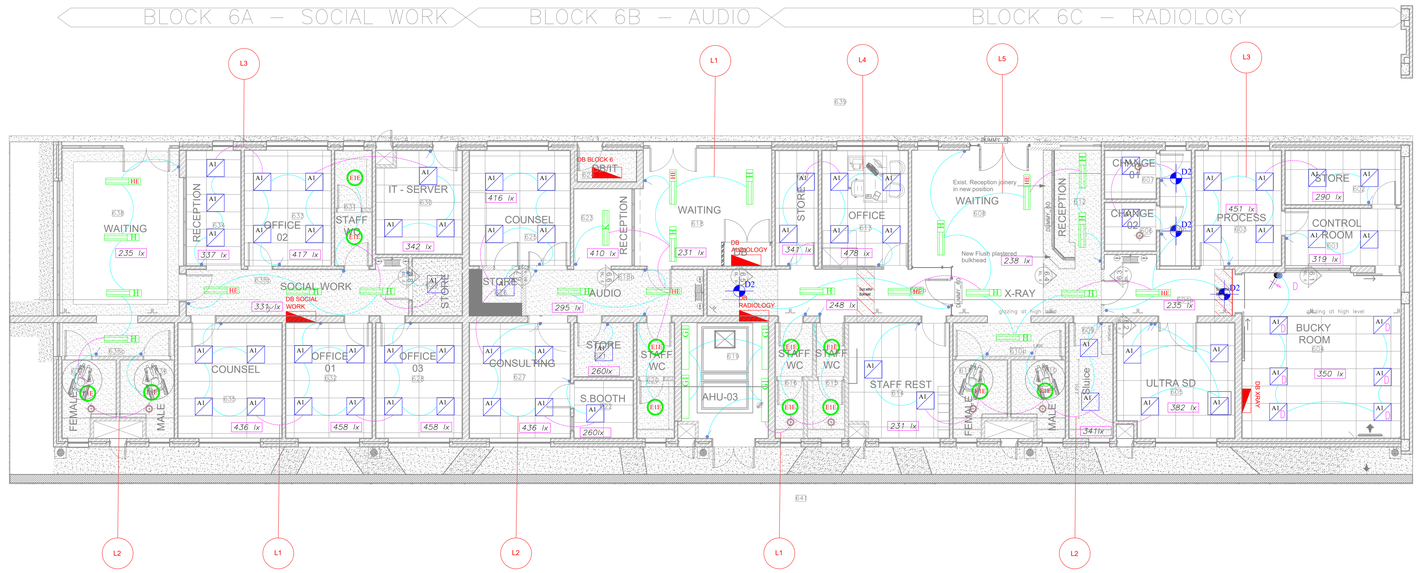
DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

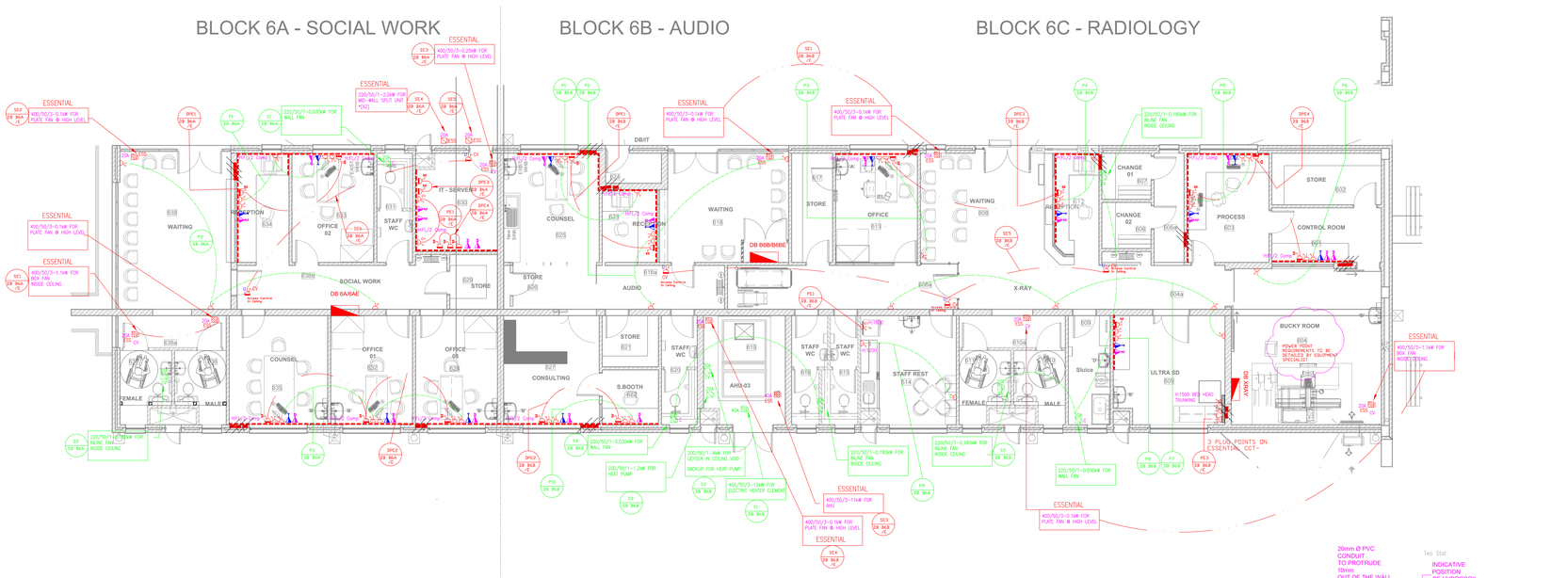
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B6	02	D	0

MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SKETCH PLAN T = TENDER
PR = PRELIMINARY D = DESIGN

INSTITUTION NO.



SOCIAL WORKER/AUDIO & X-RAY - POWER LAYOUT
scale - 1:75



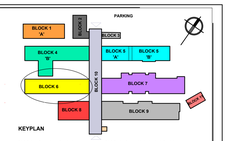
SOCIAL WORKER/AUDIO & X-RAY - LIGHTING LAYOUT
scale - 1:75

LEGEND

A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B7	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
F / F1	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H / H1E	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J / J1E	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
L / L1E	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WING REFLECTOR 2 X 28W T5
N / N1E	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO-ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
W / L–COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
G	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
DSO	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
UPS	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
E	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60Ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ... ("D" FOR DOWN)



BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Ablution/ Chiller
BLOCK 3 - Transport/ Tuckshop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Pharmacy Block 'C'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Laboratory
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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Mtuze Tel +27 (0)35 5731044 Fax +27 (0)35 5731145
PO Box 352 Mtuze 3900 email: mtuze@tjjdurkland.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mxolisi	JULY 2021	1:75
CHECKED	M. Bhoyat	JULY 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 06 - Social Work/ Audio/ Radiology Lighting and Power Layout

DRAWING INFORMATION

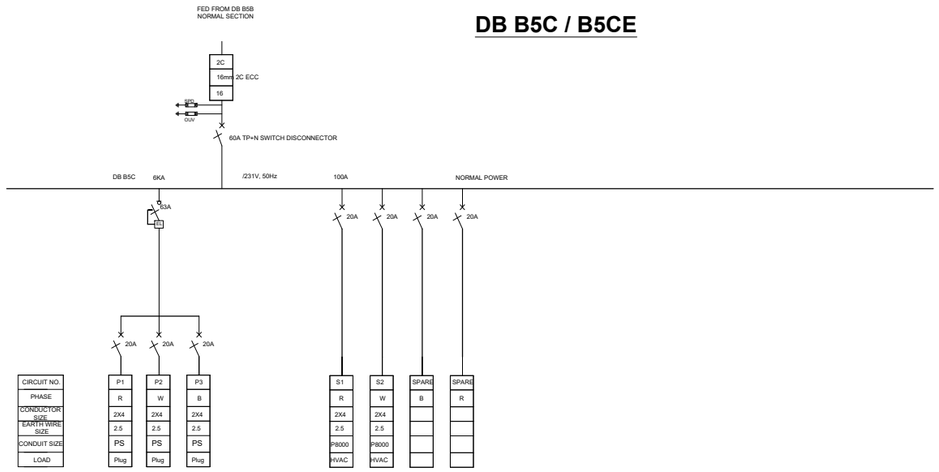
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B6	01	D	1

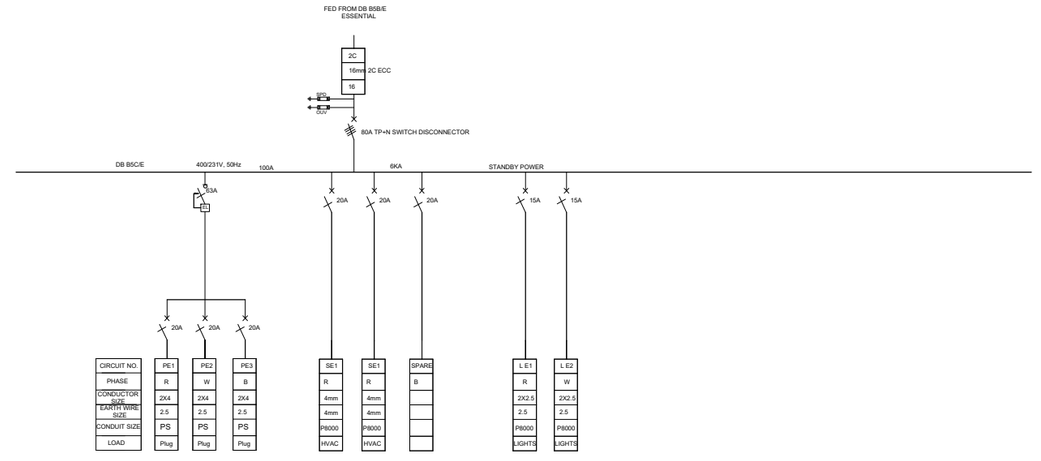
MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SKETCH PLAN T = TENDER DP = DEVIATION PLAN
PR = PRELIMINARY D = DESIGN

INSTITUTION NO.

DB B5C / B5CE



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Molor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 5C non Essential	DB-Block 5C ESSENTIAL	DESIGNATION	DB-Block 5C non Essential	DB-Block 5C ESSENTIAL	DESIGNATION	DB-Block 5C non Essential	DB-Block 5C ESSENTIAL	DESIGNATION	DB-Block 5C non Essential	DB-Block 5C ESSENTIAL	DESIGNATION	DB-Block 5C non Essential	DB-Block 5C ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-5	Block-5	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	DB B5B	DB B5B/E	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	231V	231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	80 A	80 A	MOUNTING	SURFACE MOUNTED	SURFACE MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN			1:50
CHECKED			SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05B – SHOP DB SCHEMATIC

DRAWING INFORMATION

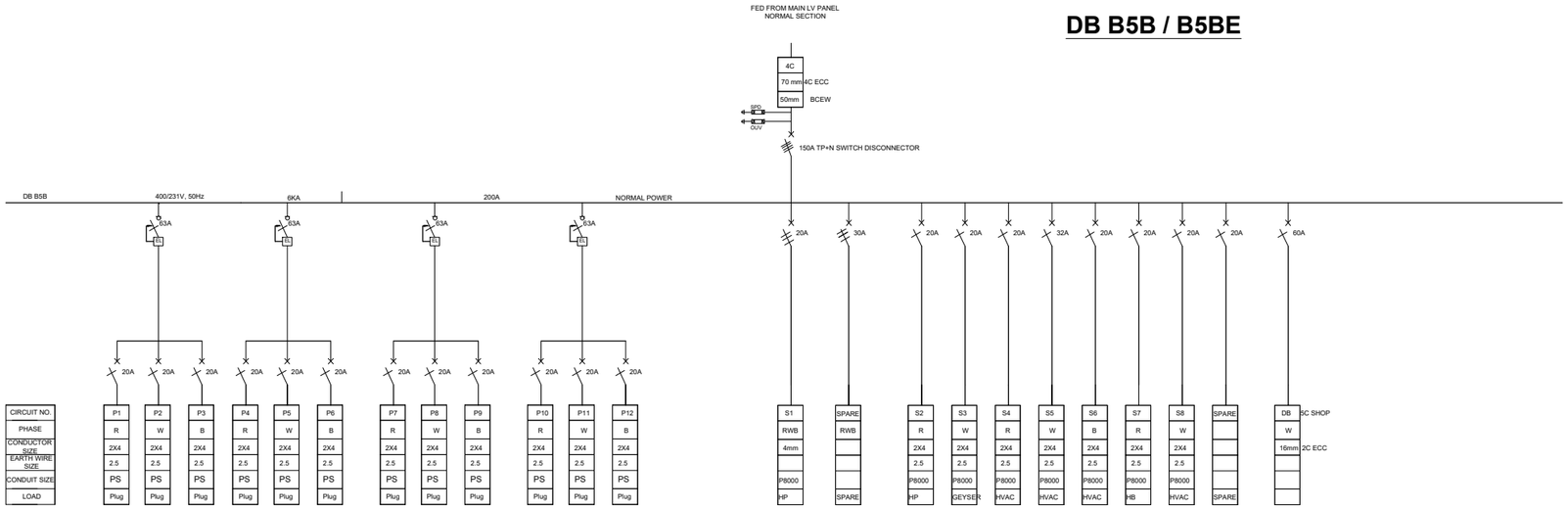
DRAWING TITLE
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	08	D	0

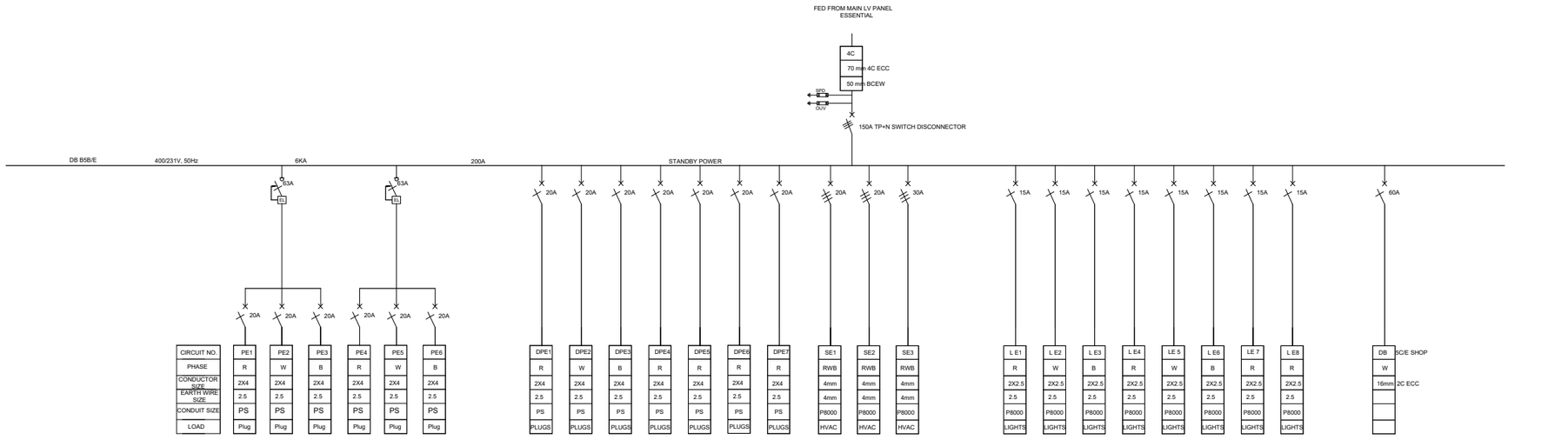
MD = MEASURED DRAWING
SP = SKETCH PLAN
PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WD = WORKING DRAWING
DP = DEVIATION PLAN

INSTITUTION NO.

DB B5B / B5BE



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Molor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 5B non Essential	DB-Block 5B ESSENTIAL	DESIGNATION	DB-Block 5B non Essential	DB-Block 5B ESSENTIAL	DESIGNATION	DB-Block 5B non Essential	DB-Block 5B ESSENTIAL	DESIGNATION	DB-Block 5B non Essential	DB-Block 5B ESSENTIAL	DESIGNATION	DB-Block 5B non Essential	DB-Block 5B ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-5	Block-5	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	200 A	200 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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PO Box 262 Mkuze 3963 email mkuze@tjazululand.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN			1:50
CHECKED			SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05B – PHARMACY DB SCHEMATIC

DRAWING INFORMATION

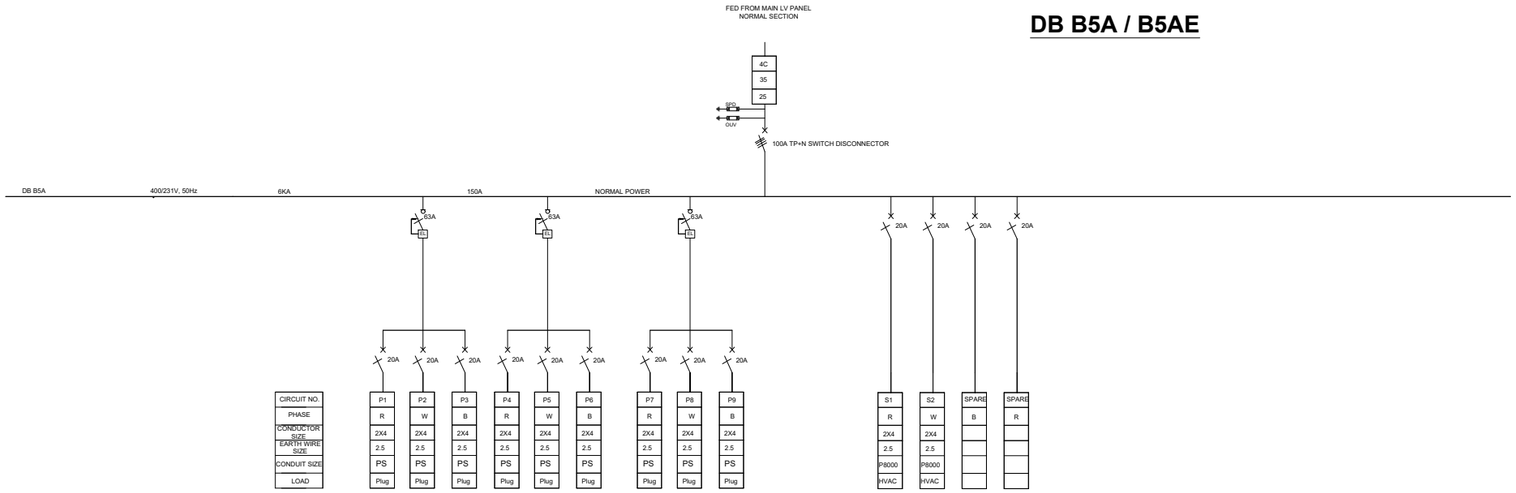
DRAWING TITLE
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	07	D	0

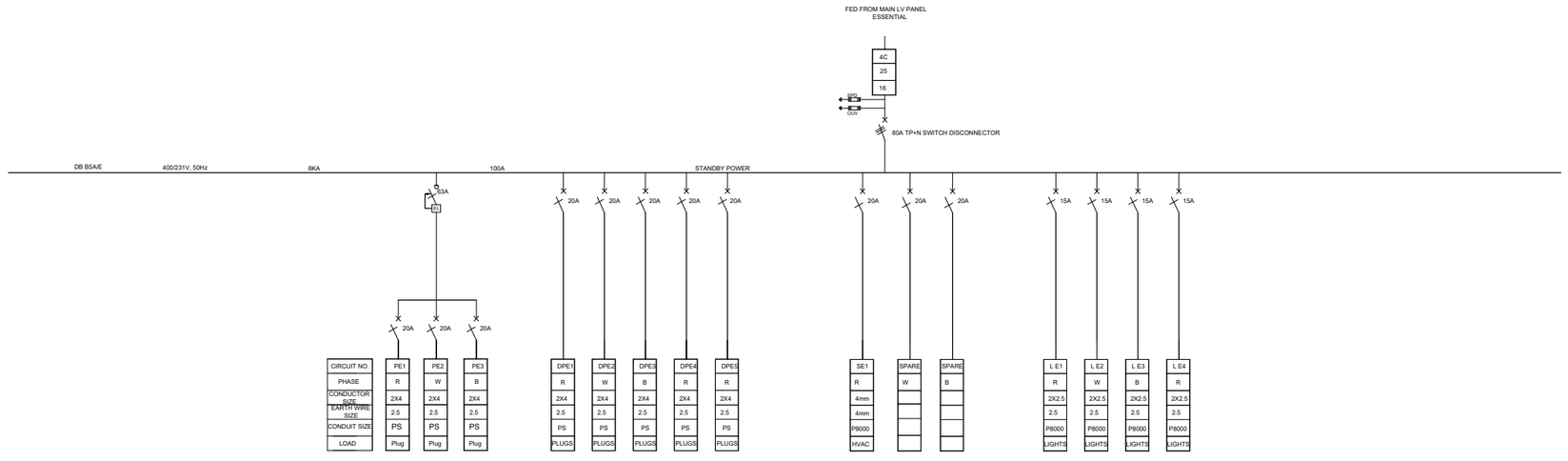
MD = MEASURED DRAWING
SP = SWITCH PLAN
PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WD = WORKING DRAWING
OP = DEVIATION PLAN

INSTITUTION NO.

DB B5A / B5AE



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
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MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 5A non Essential	DB-Block 5A ESSENTIAL	DESIGNATION	DB-Block 5A non Essential	DB-Block 5A ESSENTIAL	DESIGNATION	DB-Block 5A non Essential	DB-Block 5A ESSENTIAL	DESIGNATION	DB-Block 5A non Essential	DB-Block 5A ESSENTIAL	DESIGNATION	DB-Block 5A non Essential	DB-Block 5A ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-5	Block-5	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	150 A	100 A	MOUNTING	SURFACE MOUNTED	SURFACE MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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Mtubatuba Tel +27 (0)35 5731044 Fax +27 (0)35 5731145
PO Box 352 Mtubatuba 3965 email mtubatuba@tjadurban.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN			1:50
CHECKED			SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL
-TB COMPLEX
COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05A – RECORDS
DB SCHEMATIC

DRAWING INFORMATION

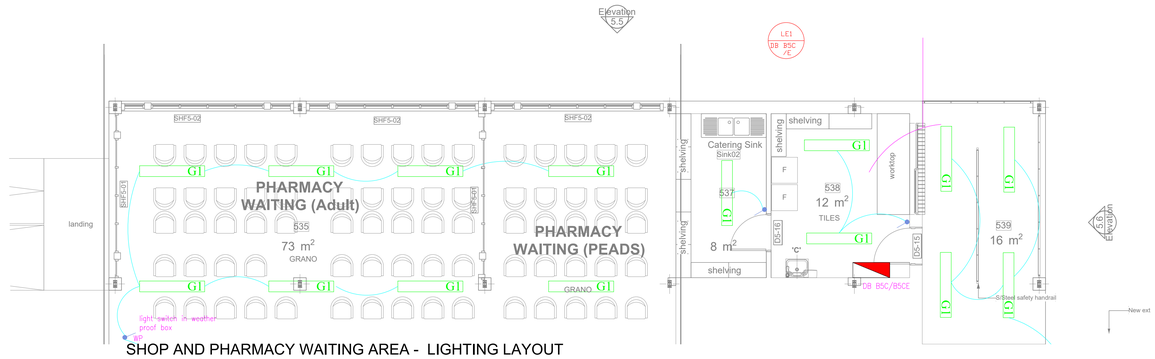
DRAWING TITLE
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	06	D	0

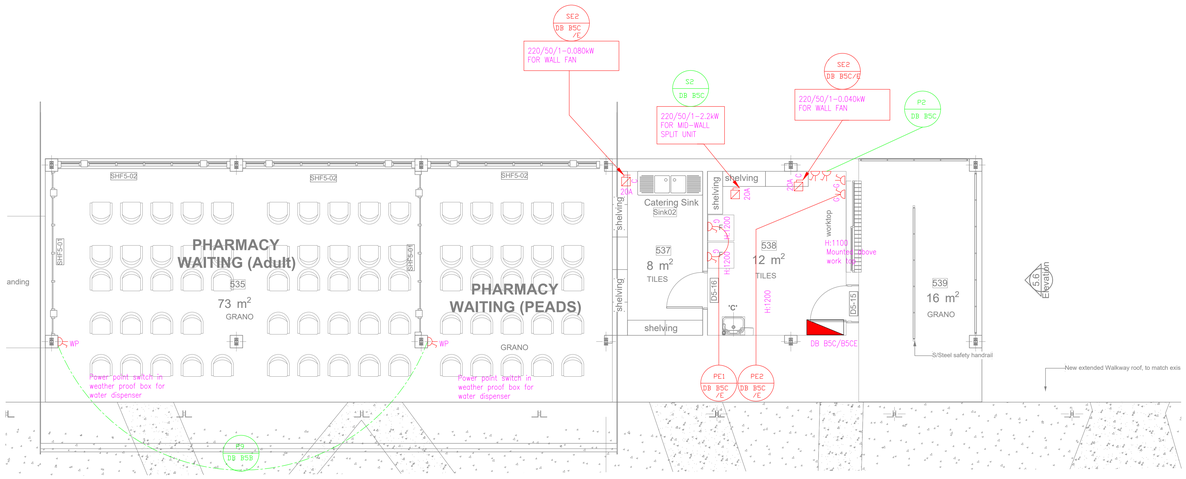
MD = MECHANICAL DRAWING
PP = SKETCH PLAN
PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL
T = TENDER
D = DESIGN
WD = WORKING DRAWING
DP = DEVIATION PLAN

INSTITUTION NO.

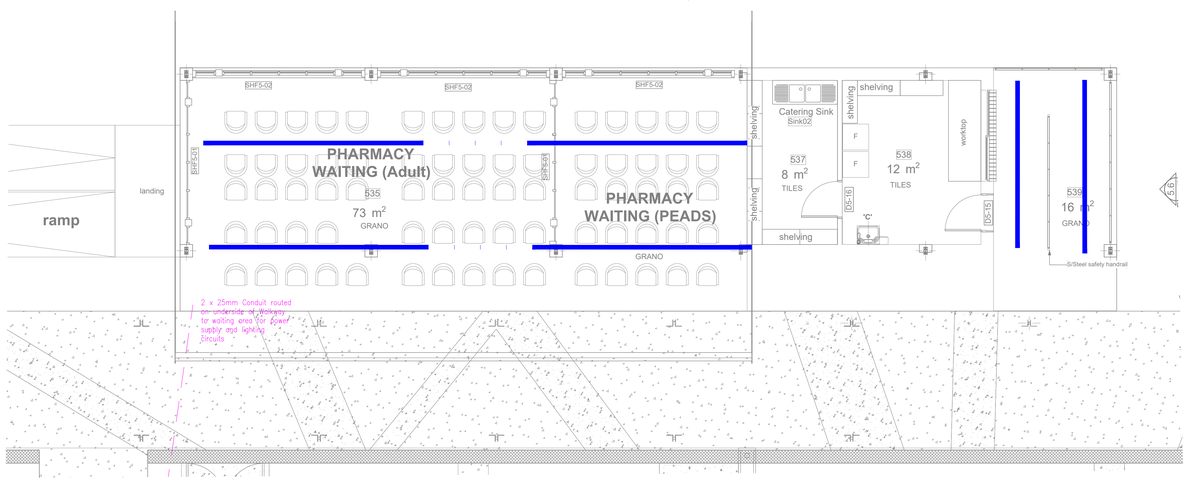
'A'



SHOP AND PHARMACY WAITING AREA - LIGHTING LAYOUT
scale - 1:50



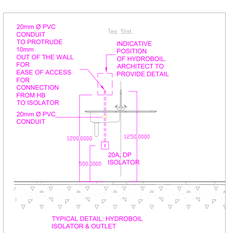
SHOP AND PHARMACY WAITING AREA - POWER LAYOUT
scale - 1:50



SHOP AND PHARMACY WAITING AREA - CABLE TRUNKING LAYOUT
scale - 1:50

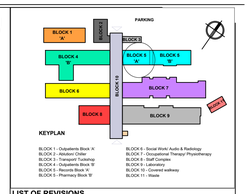
LEGEND	
A1 / D1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / D2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E1 / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
F1 / F1E	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H1 / H1E	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J1 / J1E	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
K1 / K1E	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WIND REFLECTOR 2 X 28W T5
L1 / L1E	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
	100x50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO–ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR–CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT



TYPICAL DETAIL: HYDROBOIL ISOLATOR & OUTLET

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
H / F / COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
S	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR–CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60# OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER–PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
L	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
ELECTRICAL ENGINEERS
Dihlase Consulting Engineers
201 Kent House
1 Neptune Road
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Fax:0867605088
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Dihlase CONSULTING ENGINEERS. Practical Innovation an EQN company

CLIENT:

KZN WORKS

PROVINCE OF KWAZULU-NATAL

HEAD: WORKS

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PO Box 952 Mtuze 3965 email mtuze@tjaholland.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelia	June 2021	1:50
CHECKED	M.Bhayat	June 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05 - SHOP AND WAITING AREA POWER AND LIGHTING

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

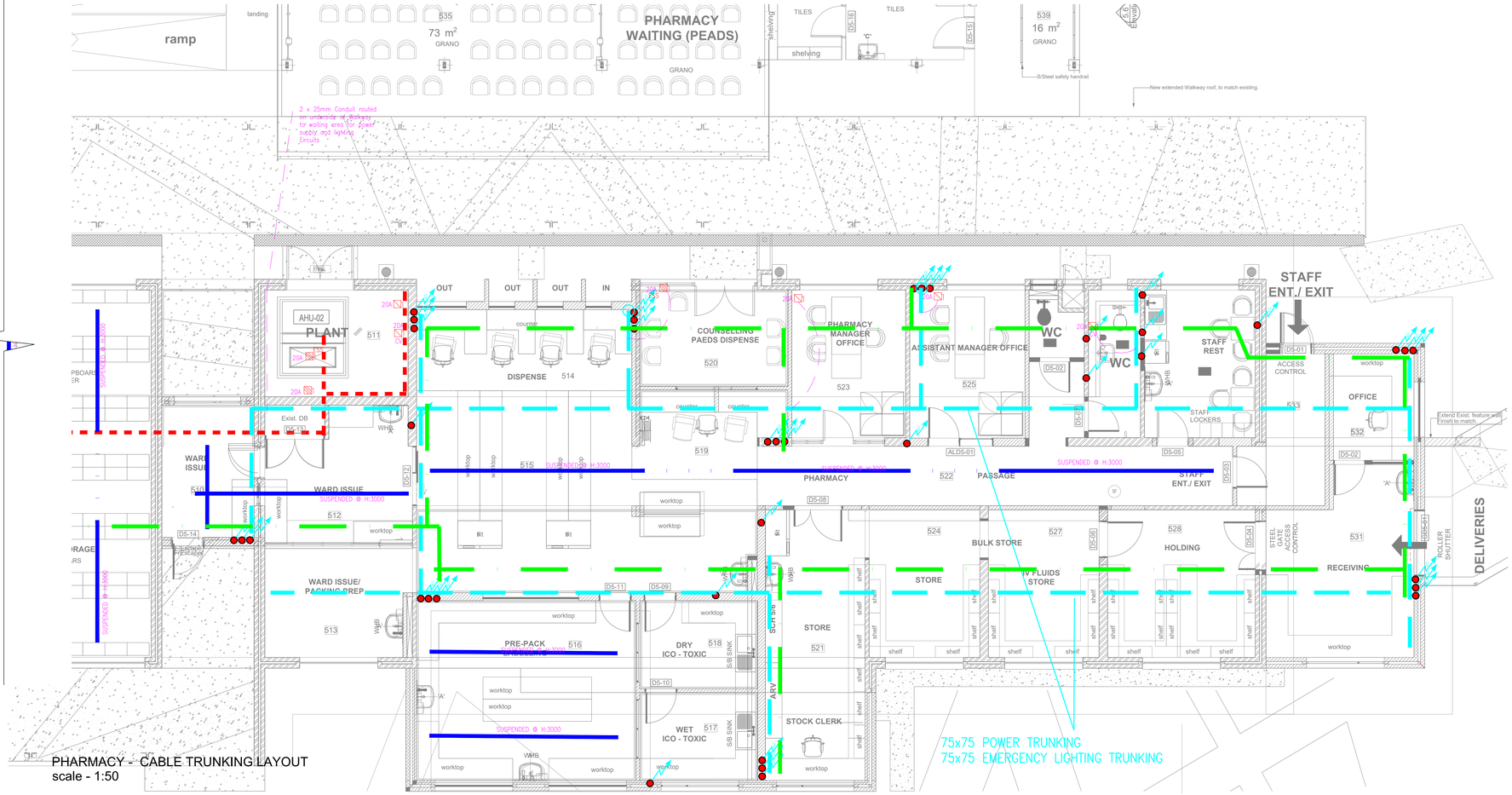
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	05	D	0

MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SKETCH PLAN T = TENDER DP = DEVIATION PLAN
PR = PRELIMINARY D = DESIGN

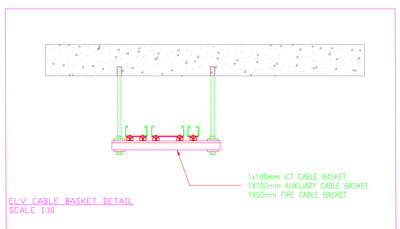
INSTITUTION NO.

C:\Tx Scripts\Templates\Multi\Block 5 - New Pharmacy_R24.pdf - June 2019

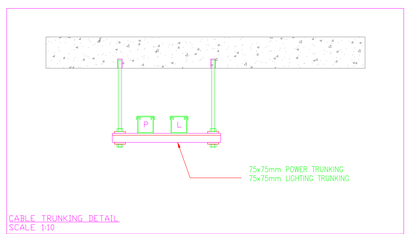
'B'



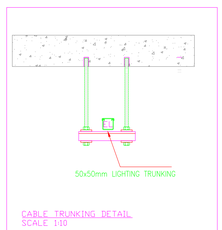
PHARMACY - CABLE TRUNKING LAYOUT
scale - 1:50



ELV CABLE BASKET DETAIL
SCALE 1:10

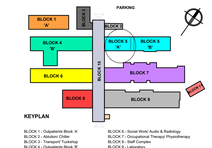


CABLE TRUNKING DETAIL
SCALE 1:10



CABLE TRUNKING DETAIL
SCALE 1:10

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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Dihlase Consulting Engineers
201 Kent House
1 Neptune Road
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Tel:(031) 266-7861
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Dihlase CONSULTING ENGINEERS Practical Innovation an EDK company

CLIENT:
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HEAD: WORKS

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Tel +27 (0)31 2668386 Fax +27 (0)31 2660437
PO Box 723 Westville 3610
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Mkuze Tel +27 (0)35 5731044 Fax +27 (0)35 5731145
PO Box 352 Mkuze 3965 email: mkuze@tjazululand.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Monks	JUNE 2021	1:50
CHECKED	M.Bheyat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05 - Pharmacy 'B' Cable Trunking Layout

DRAWING INFORMATION

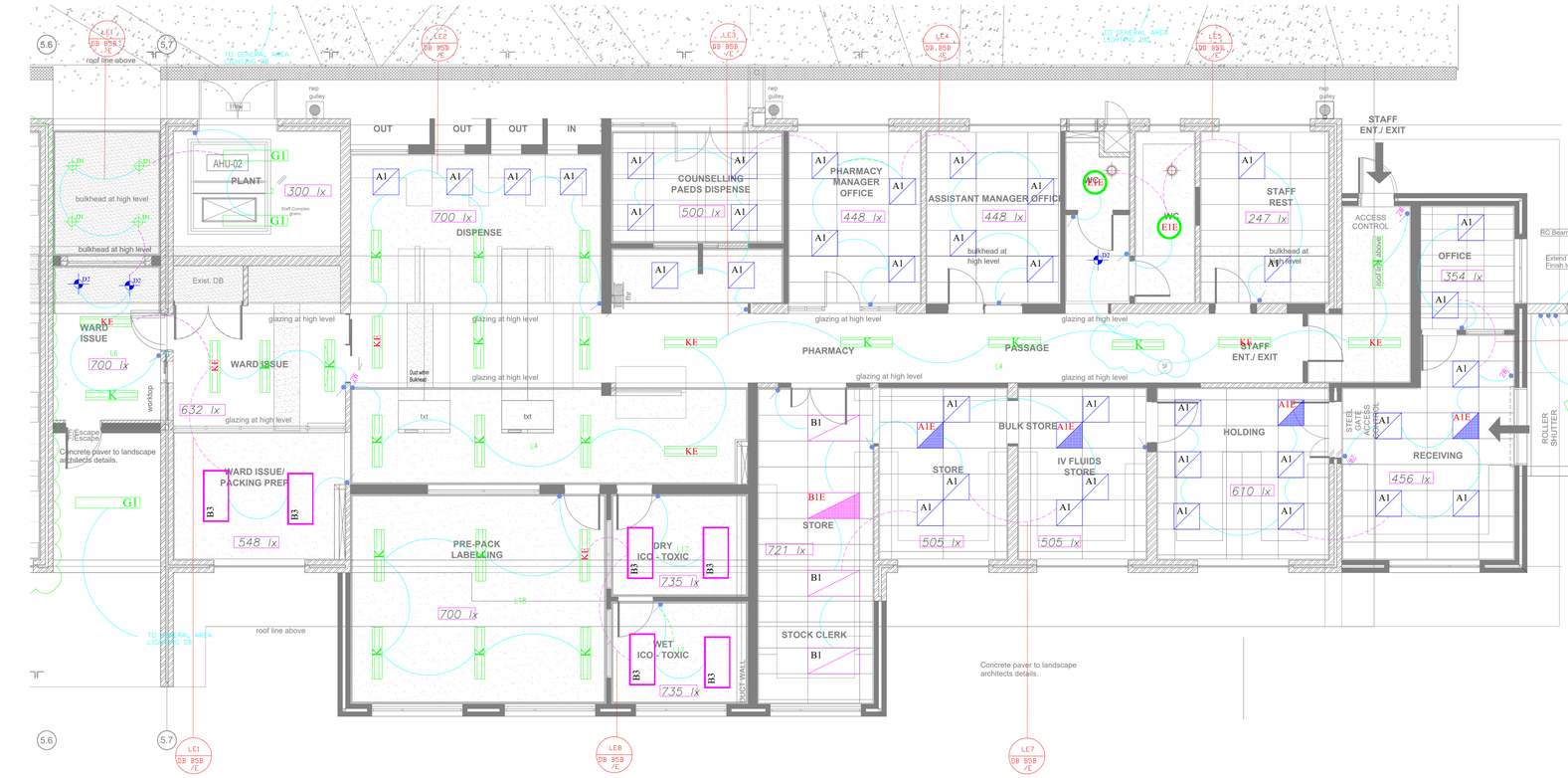
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	04	D	0

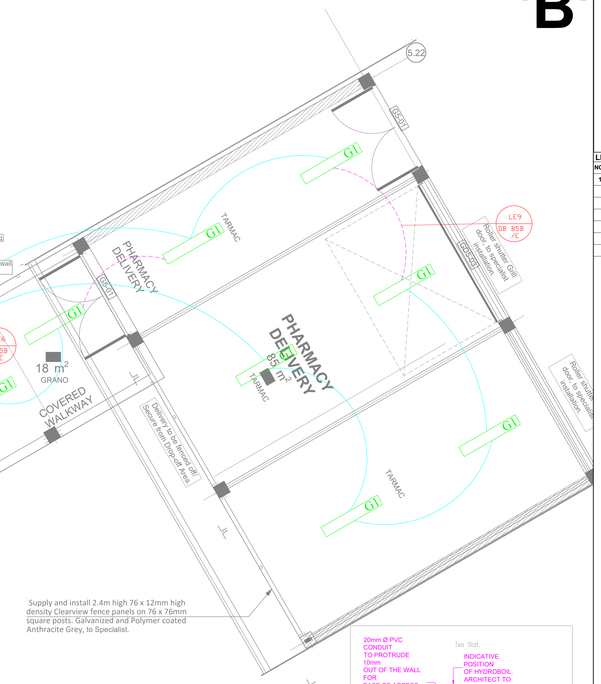
MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SKETCH PLAN T = TENDER DP = DEVIATION PLAN
PR = PRELIMINARY

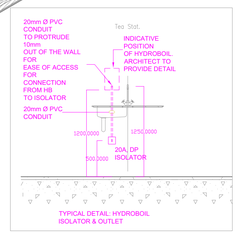
INSTITUTION NO.

'B'

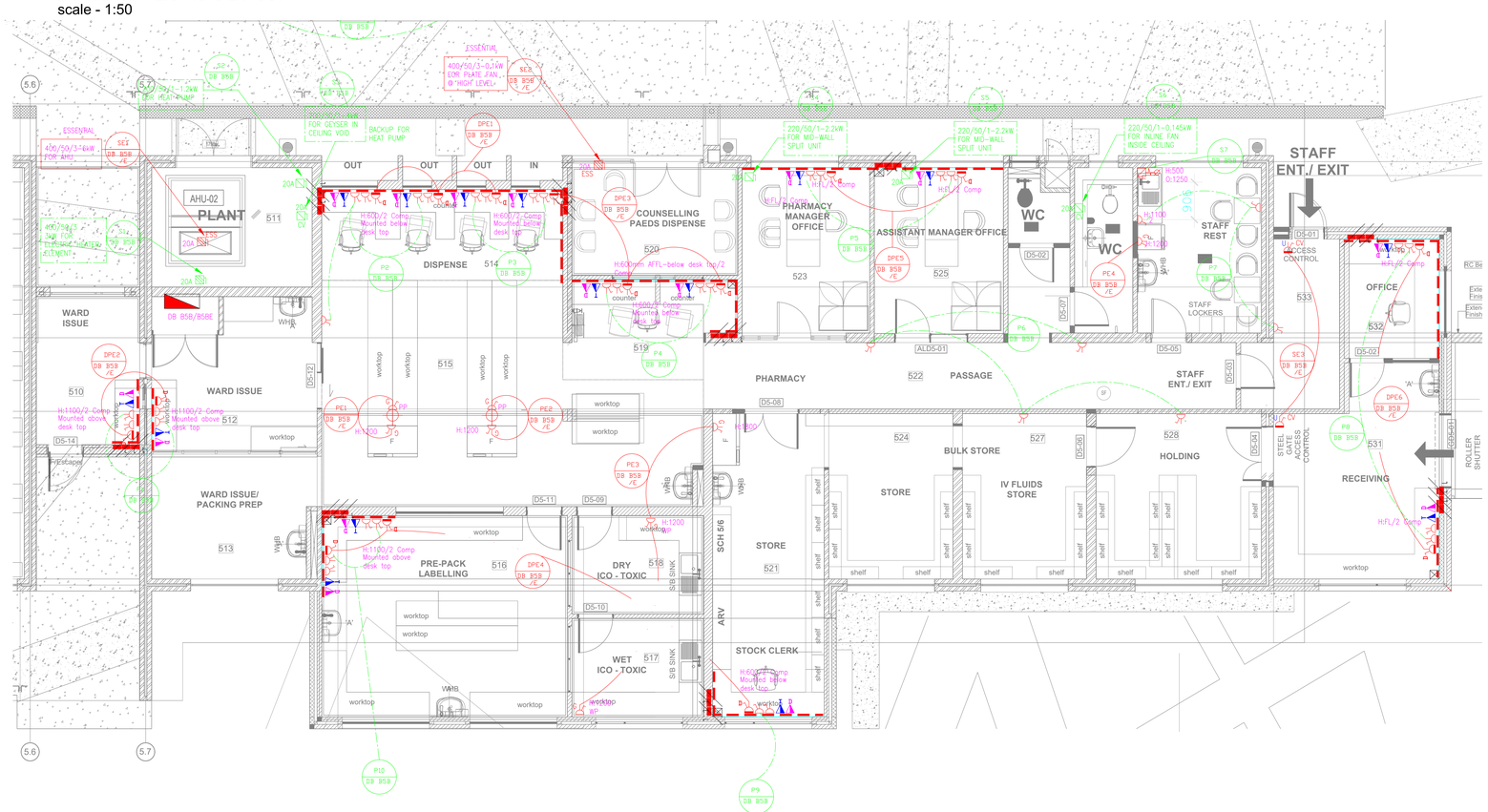


PHARMACY - LIGHTING LAYOUT
scale - 1:50





TYPICAL DETAIL HYDROBOIL ISOLATOR & OUTLET



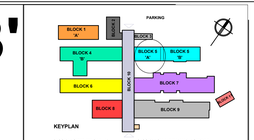
PHARMACY - POWER LAYOUT
scale - 1:50

LEGEND

A1 / A1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E1 / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
F1	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H1 / H2	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J1 / J2	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
L1 / L2	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WING REFLECTOR 2 X 28W T5
K1 / K2	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
EB	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO–ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
H/F–COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
E	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR–CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
⌀	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
⌀	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 600 OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER–PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)



KEYPLAN

BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Ablution Chiller
BLOCK 3 - Transport Tunkshop
BLOCK 4 - Pharmacy Block 'B'
BLOCK 5 - Records Block 'A'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Clinical Block
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1	08/2021	light fittings adjusted- bulkheads removed architect	MZ

CONSULTANT:
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HEAD: WORKS

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Mtuze Tel +27 (0)35 5731044 Fax +27 (0)35 5731145
PO Box 352 Mtuze 3965 email mtuze@tjazululand.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Moolla	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05 -Pharmacy 'B' Lighting & Power Layout

DRAWING INFORMATION

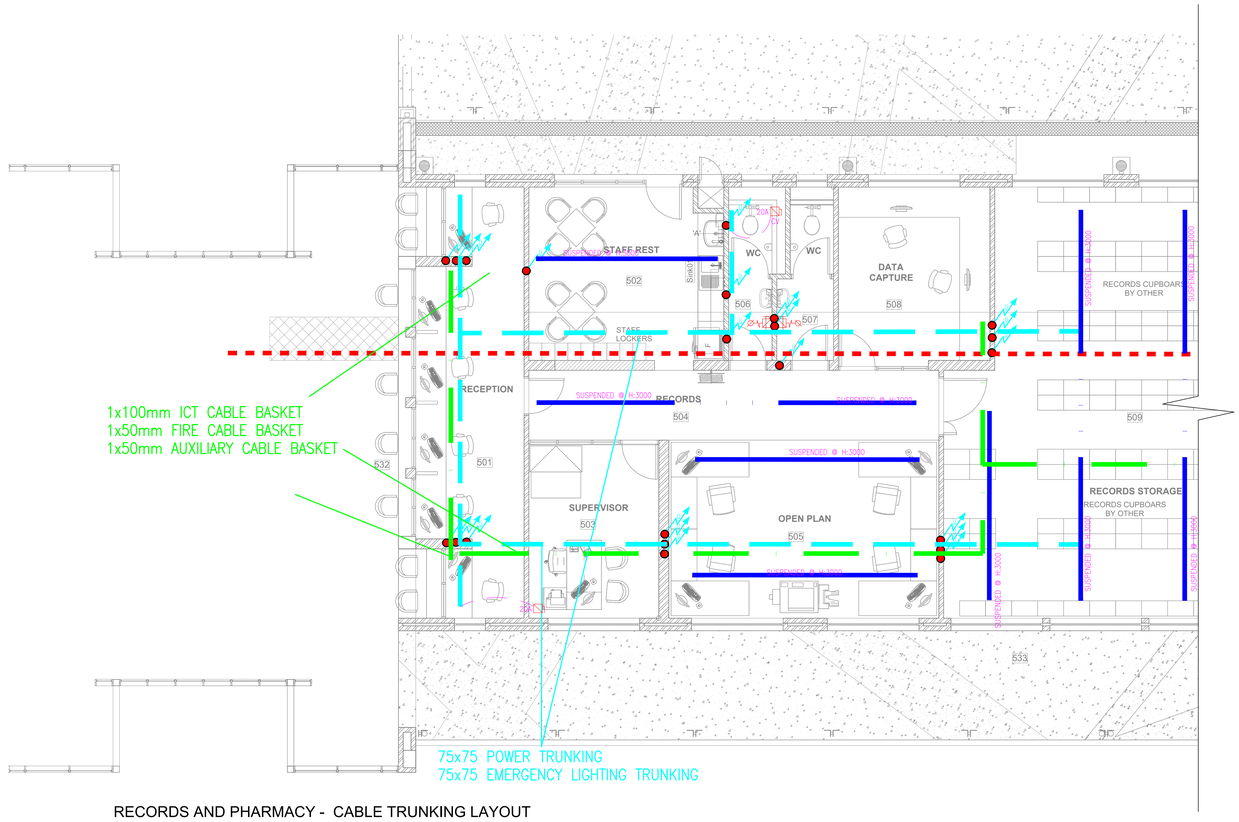
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	03	D	1

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER
WD = WORKING DRAWING DP = DEVIATION PLAN

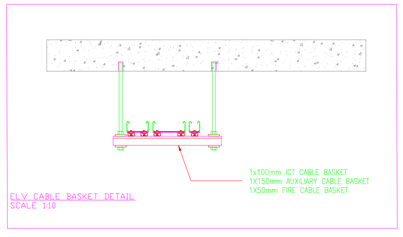
INSTITUTION NO.

'A'

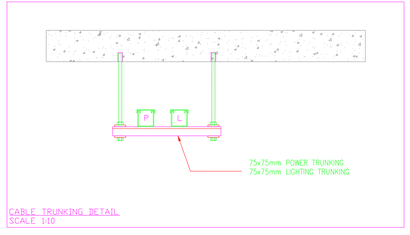


RECORDS AND PHARMACY - CABLE TRUNKING LAYOUT
scale - 1:50

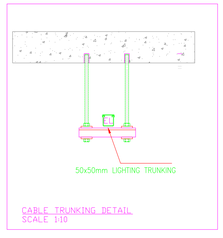
LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
6A AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
6A	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT



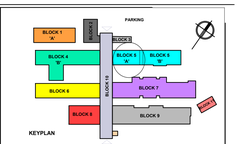
ELV CABLE BASKET DETAIL
SCALE 1:10



CABLE TRUNKING DETAIL
SCALE 1:10



CABLE TRUNKING DETAIL
SCALE 1:10



BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Aesculon/ Chiller
BLOCK 3 - Transport/ Tuckshop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Outpatients Block 'C'
BLOCK 6 - Pharmacy Block 'B'
BLOCK 8 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 6 - Staff Complex
BLOCK 9 - Laboratory
BLOCK 10 - Records/ Pharmacy
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvola	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05 - Records 'A' Cable Trunking Layout

DRAWING INFORMATION

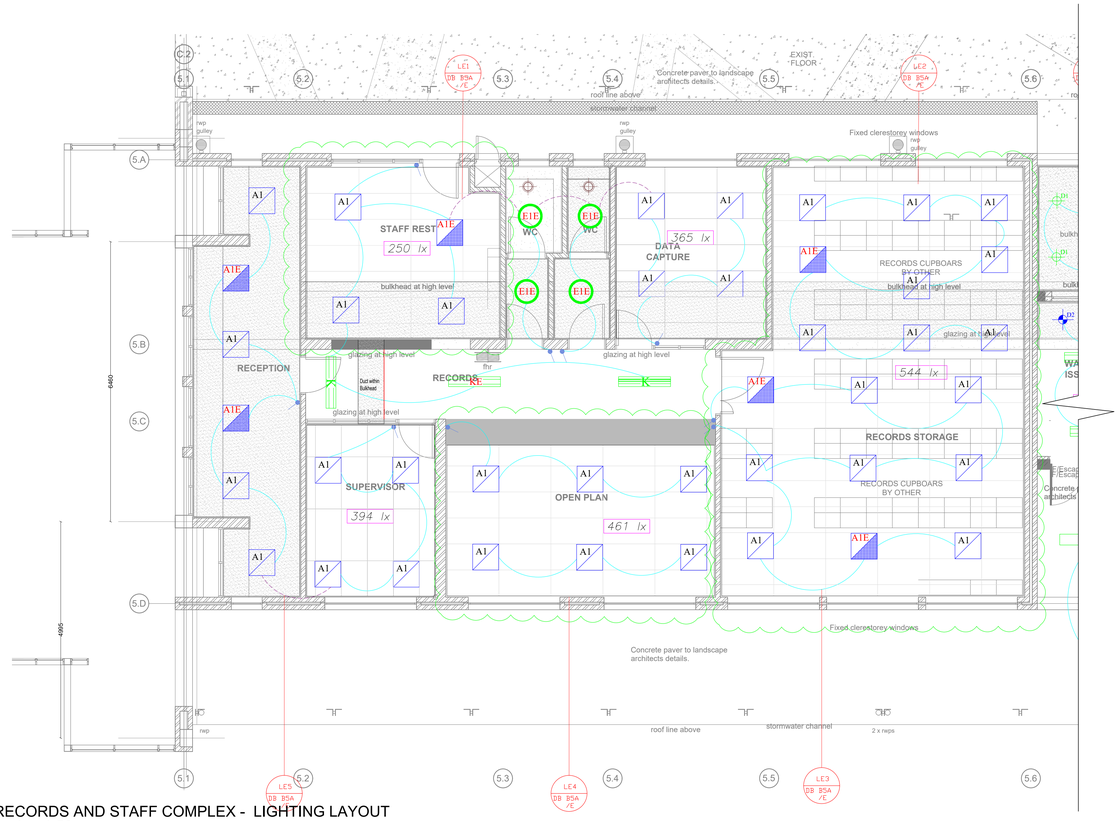
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	02	D	0

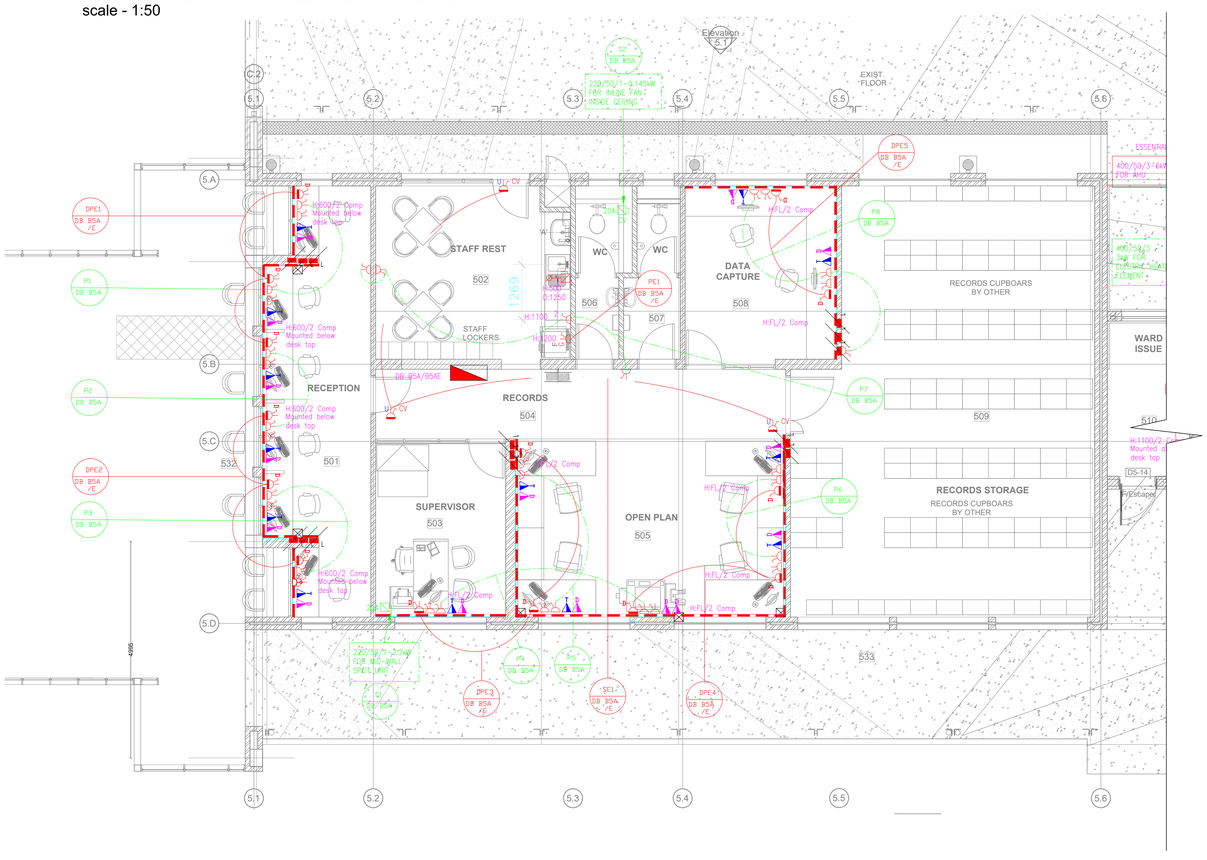
MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.

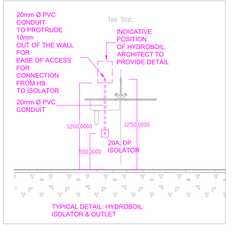
'A'



RECORDS AND STAFF COMPLEX - LIGHTING LAYOUT
scale - 1:50



RECORDS AND STAFF COMPLEX - POWER LAYOUT
scale - 1:50



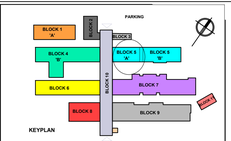
TYPICAL DETAIL: HYDROBOIL ISOLATOR & OUTLET

LEGEND

A1 / A1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE – A2E–DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
E / E1E	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
F / F1	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP 1x 54W T5
H / H1	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J / J1	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
K / K1	1200 x 178mm SUSPENDED LIGHT FITTING OPEN CHANNEL WITH INDUSTRIAL WIND REFLECTOR 2 X 28W T5
L / L1	1200 x 225mm SUSPENDED LIGHT FITTING PARABOLIC LOUVRE 2 X 28W T5
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
	100x50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO-ELECTRIC CELL (DAYLIGHT SWITCH)
EXIT	EXIT SIGN

LEGEND

	ELECTRICAL DISTRIBUTION BOARD
H/-COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
E	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
C	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
20	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
W	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60Ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
L	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("U" FOR DOWN)



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN
1.	08/2021	Light fittings changed to new ceiling grid layout	MZ

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Moolla	June 2021	1:50
CHECKED	M.Bhayat	June 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 05 - Records 'A' Lighting and Power Layout

DRAWING INFORMATION

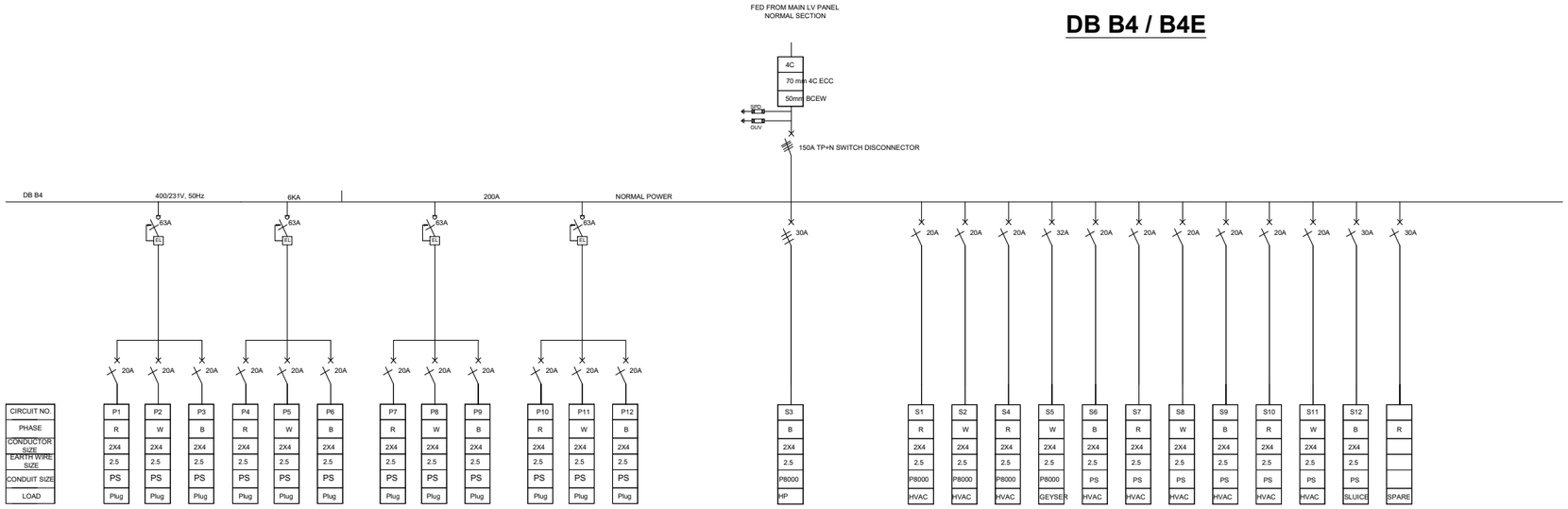
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B5	01	D	1

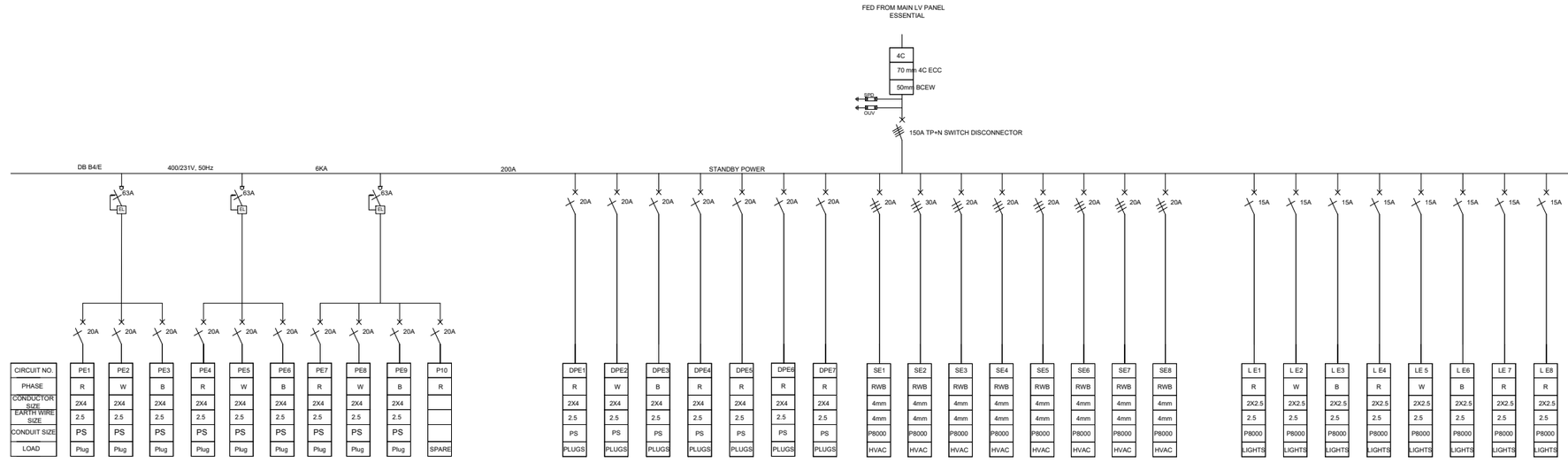
MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.

DB B4 / B4E



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 4 non Essential	DB-Block 4 ESSENTIAL	DESIGNATION	DB-Block 4 non Essential	DB-Block 4 ESSENTIAL	DESIGNATION	DB-Block 4 non Essential	DB-Block 4 ESSENTIAL	DESIGNATION	DB-Block 4 non Essential	DB-Block 4 ESSENTIAL	DESIGNATION	DB-Block 4 non Essential	DB-Block 4 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-4	Block-4	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	200 A	200 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelo	JUNE 2021	1:50
CHECKED	M. Bheyat	JUNE 2021	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME:
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT:
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION:
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION:
BLOCK 04 – Outpatients 'B' Schematic

DRAWING INFORMATION

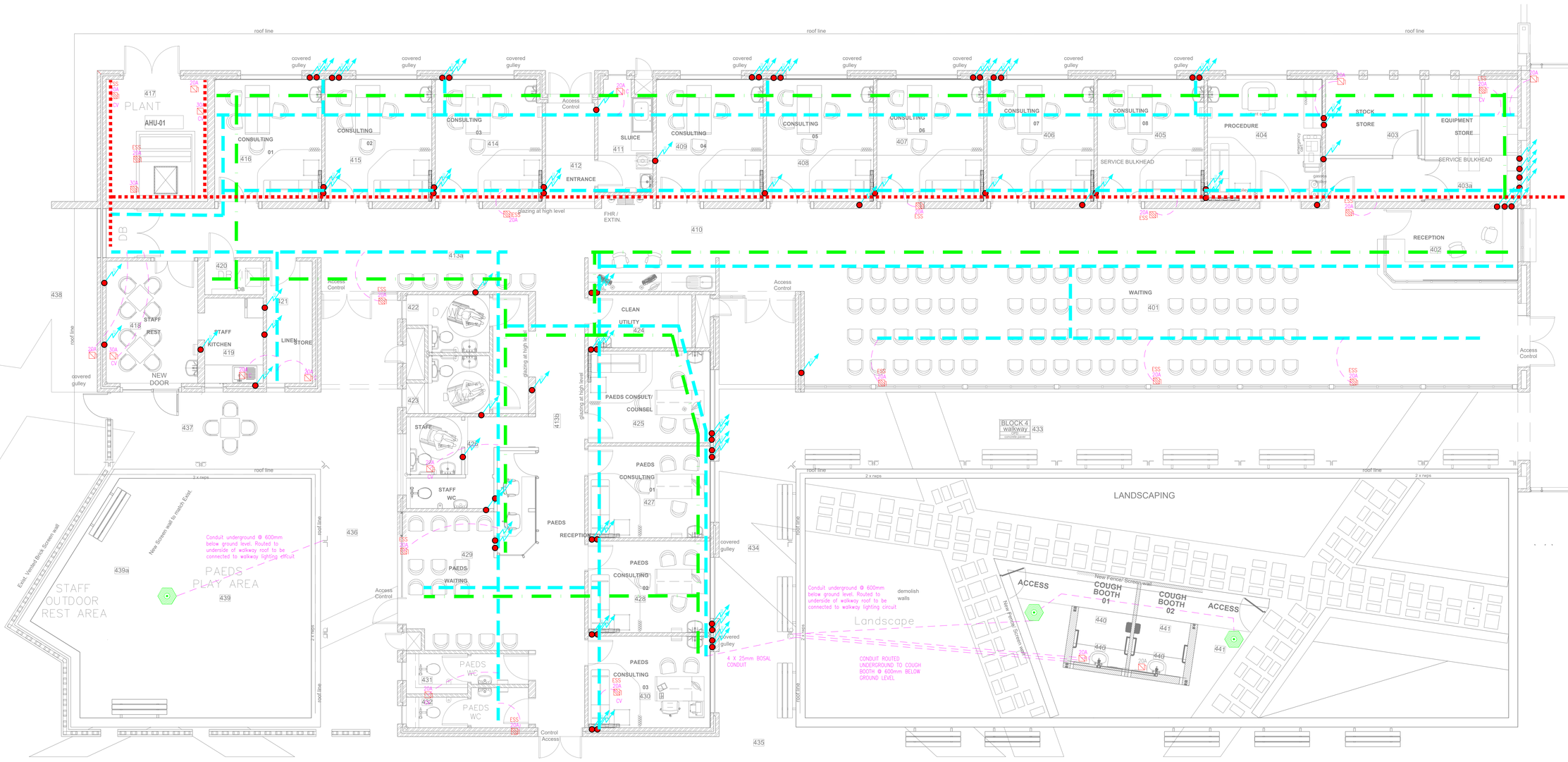
DRAWING TITLE:
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B4	04	D	0

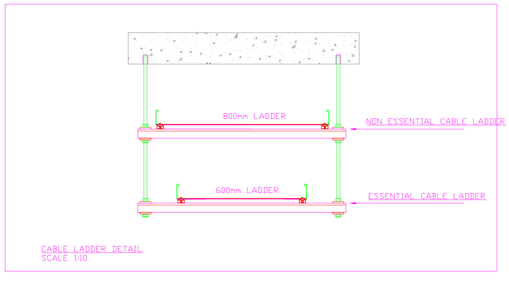
MD = MEASURED DRAWING SP = SKETCH PLAN PRE = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.

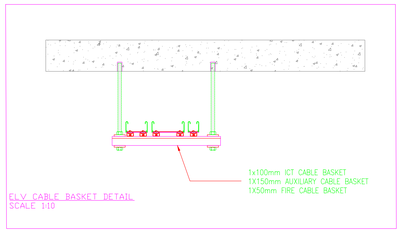
'B'



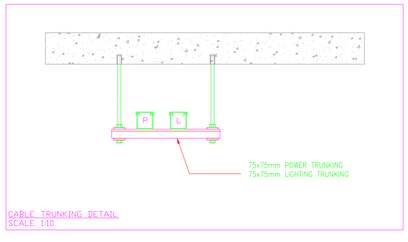
OUT PATIENTS - LIGHTING LAYOUT
scale - 1:50



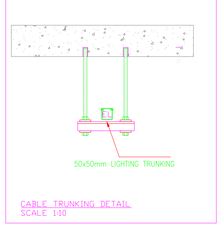
CABLE LADDER DETAIL
SCALE 1:10



ELV CABLE BASKET DETAIL
SCALE 1:10

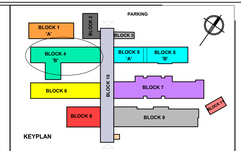


CABLE TRUNKING DETAIL
SCALE 1:10



CABLE TRUNKING DETAIL
SCALE 1:10

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
6A AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
6A	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT



KEYPLAN

BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Pharmacy Block 'A'
BLOCK 3 - Transport / Tradehop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Records Block 'A'
BLOCK 6 - Pharmacy Block 'B'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Laboratory
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Moolla	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 04 - Outpatients 'B' Trunking Layout

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B4	03	D	0

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER
WD = WORKING DRAWING D = DESIGN

INSTITUTION NO.

'B'

CHECK POSITIONS OF EXISTING OUT DOOR LIGHT FITTINGS

CHECK POSITIONS OF EXISTING OUT DOOR LIGHT FITTINGS

PLANT
AHU-01
305 lx
GI

CONSULTING 01
CONSULTING 02
CONSULTING 03
CONSULTING 04
CONSULTING 05
CONSULTING 06
CONSULTING 07
CONSULTING 08
419 lx

PROCEDURE
599lx
4no
3x
14w
ATE

STOCK STORE
306lx @ 300mm AFFL

EQUIPMENT STORE
464lx @ 300mm AFFL

SERVICE BULKHEAD
357lx @ 300mm AFFL

DB
DB/IT
STAFF KITCHEN
STAFF REST
107 lx
NEW DOOR
382 lx
LINEN STORE
313 lx
AFFL 3m to u/s ceiling

Access Control
FHR / EXTIN.
glazing at high level
To light panel at reception

CLEAN UTILITY
345 lx

WAITING
227 lx
Suspended Bulkhead

RECEPTION
224 lx
Light panel

D/WC
STAFF
PAEDS RECEPTION
PAEDS CONSULT/ COUNSEL
440 lx
PAEDS CONSULTING 01
PAEDS CONSULTING 02
PAEDS CONSULTING 03

PAEDS WAITING
361 lx
231 lx
PAEDS WC
Bulkhead

STAFF OUTDOOR REST AREA
PAEDS PLAY AREA
Existing Vaaltyd Brick Screen wall
New Screen wall to match Exist.
Connect to general lighting exterior circuits

BLOCK 4 walkway

LANDSCAPING
Landscape
demolish walls
Omit Paving
ACCESS
COUGH BOOTH 01
COUGH BOOTH 02
441
440

L1 DB B4/E
L2 DB B4/E
L3 DB B4/E
L4 DB B4/E
L5 DB B4/E
L6 DB B4/E
L7 DB B4/E
L8 DB B4/E

roof line
covered gulley
2 x rwps
roof link

PARKING

KEYPLAN

BLOCK 1: Outpatients Block 'A'
BLOCK 2: Ablution/ Chiller
BLOCK 3: Transport/ Tuckshop
BLOCK 4: Outpatients Block 'B'
BLOCK 5: Laboratory
BLOCK 6: Occupational Therapy
BLOCK 7: Pharmacy Block 'B'
BLOCK 8: Social Work/ Audio & Radiology
BLOCK 9: Occupational Therapy/ Physiotherapy
BLOCK 10: Staff Complex
BLOCK 11: Laboratory
BLOCK 12: Covered walkway
BLOCK 13: Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

OUT PATIENTS - LIGHTING LAYOUT
scale - 1:50

LEGEND

A1/ A1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE. A1E– DITTO WITH BATTERY BACKUP
A2/ A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE. – A2E–DITTO WITH BATTERY BACKUP
A3/ A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE – A3E–DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER
B1E	1200 x 600mm RECESSED LIGHT FITTING T5 3X28W FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP
B2	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE
B2E	1200 x 600mm RECESSED LIGHT FITTING T5 3x28W FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1/ D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E–DITTO WITH BATTERY BACKUP
D2/ D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E– DITTO WITH BATTERY BACKUP
H/ HE	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
FH	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5

H/ HE	SURFACE BULKHEAD LIGHT FITTING– E26 PHILIPS LED BULB E1E– DITTO WITH BATTERY BACKUP
FH	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
GI/ GIE	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E–DITTO WITH BATTERY BACKUP. 1x 54W T5
FH	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
FH	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
	OUTDOOR POST TOP LIGHT FITTING ON 4m POLE
	EXAMINATION LIGHT (30 000 lx)
	EXAMINATION LIGHT (10 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z Mxolisi	JUNE 2021	1:50
CHECKED	M Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION
CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN
USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION
PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT
SITE DESCRIPTION
BLOCK 04 – Outpatients 'B' Lighting Layout

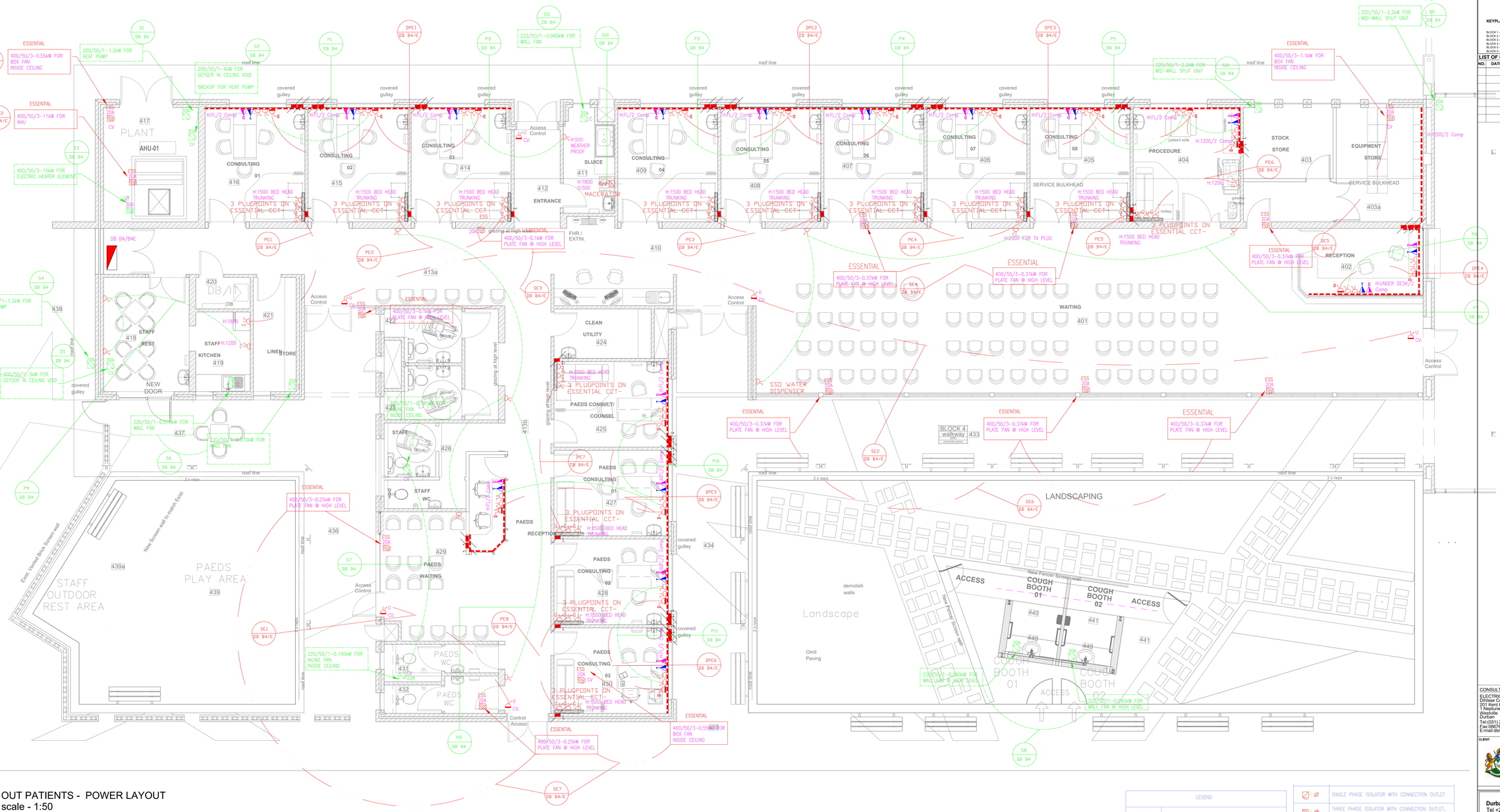
DRAWING INFORMATION
DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B4	02	D	1

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

INSTITUTION NO.

'B'

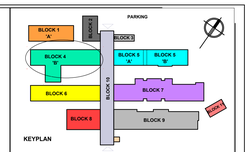


OUT PATIENTS - POWER LAYOUT
scale - 1:50

TYPICAL DETAIL: HYDROBOIL ISOLATOR & OUTLET

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
H:/ SIZE	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
MEDICAL BED HEAD TRUNKING	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
E	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
UPS	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
½ Ø	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET

½ Ø	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
½ Ø	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60Ø OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
H:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)



KEYPLAN

BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Ablution Chiller
BLOCK 3 - Transport Tuckshop
BLOCK 4 - Outpatients Block 'B'
BLOCK 5 - Records Block 'A'
BLOCK 5 - Pharmacy Block 'B'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Laboratory
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mxolisi	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 04 - Outpatients 'B' Power Layout

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B4	01	D	0

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
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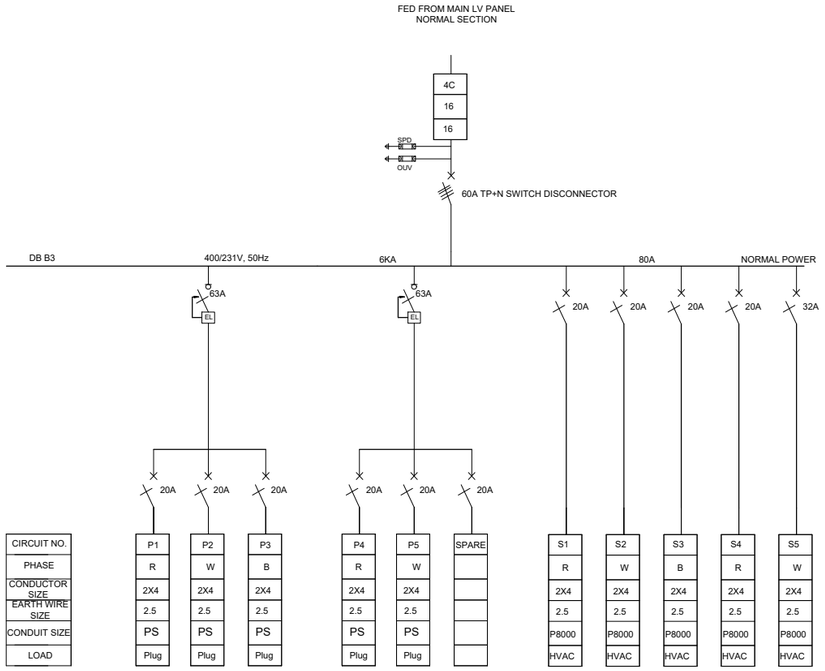
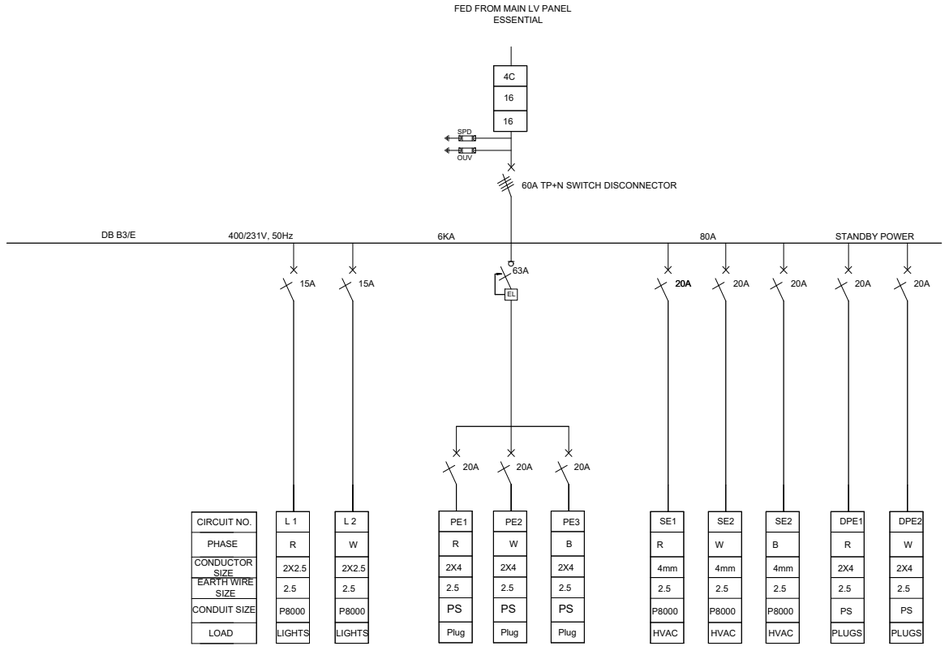
INSTITUTION NO.

DB B3 / B3E

MECHANICAL BARRIER



CIRCUIT NO.	P1	P2	P3	P4	P5	SPARE	S1	S2	S3	S4	S5
PHASE	R	W	B	R	W		R	W	B	R	W
CONDUCTOR SIZE	2X4	2X4	2X4	2X4	2X4		2X4	2X4	2X4	2X4	2X4
EARTH WIRE SIZE	2.5	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5
CONDUIT SIZE	PS	PS	PS	PS	PS		P8000	P8000	P8000	P8000	P8000
LOAD	Plug	Plug	Plug	Plug	Plug		HVAC	HVAC	HVAC	HVAC	HVAC



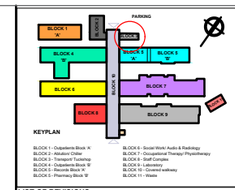
CIRCUIT NO.	L 1	L 2	PE1	PE2	PE3	SE1	SE2	SE2	SE2	DPE1	DPE2
PHASE	R	W	R	W	B	R	W	4mm	B	R	W
CONDUCTOR SIZE	2X2.5	2X2.5	2X4	2X4	2X4	4mm	4mm	4mm	4mm	2X4	2X4
EARTH WIRE SIZE	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
CONDUIT SIZE	P8000	P8000	PS	PS	PS	P8000	P8000	P8000	P8000	PS	PS
LOAD	LIGHTS	LIGHTS	Plug	Plug	Plug	HVAC	HVAC	HVAC	HVAC	PLUGS	PLUGS

NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1-2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block 3 non Essential	DB-Block 3 ESSENTIAL	DESIGNATION	DB-Block 3 non Essential	DB-Block 3 ESSENTIAL	DESIGNATION	DB-Block 3 non Essential	DB-Block 3 ESSENTIAL	DESIGNATION	DB-Block 3 non Essential	DB-Block 3 ESSENTIAL	DESIGNATION	DB-Block 3 non Essential	DB-Block 3 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-3	Block-3	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	80 A	80 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN			1:50
CHECKED	M.Bhayat	November 2020	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME:
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL
-TB COMPLEX
COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 03 –
TRANSPORT AND
TUCKSHOP SCHEMATIC

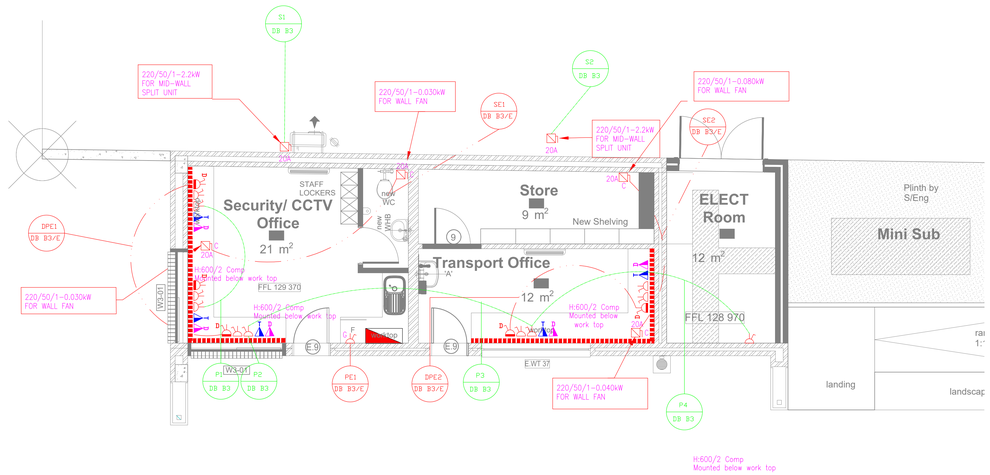
DRAWING INFORMATION

DRAWING TITLE
STAGE 3 – DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3639	B3	02	D	0

SD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
WD = WORKING DRAWING DP = DEVIATION PLAN

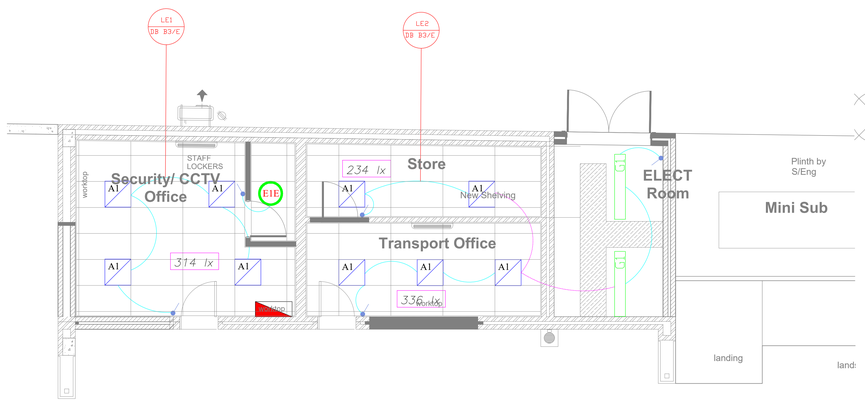
INSTITUTION NO.



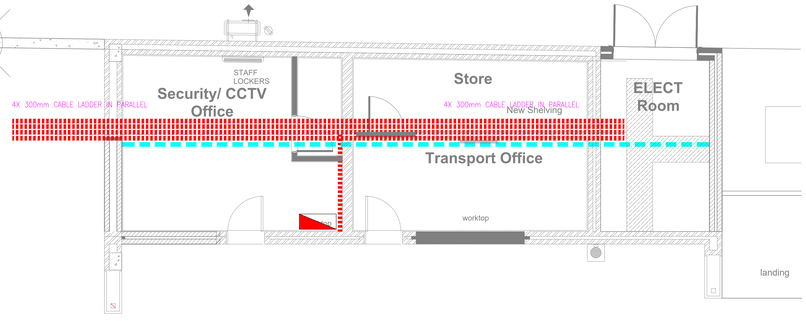
TRANSPORT - LIGHTING LAYOUT
scale - 1:50

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
6A AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
6A	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT

LEGEND	
A1 / A1E	600 x 600mm RECESSED LIGHT FITTING T5 3X14W PRISMATIC DIFFUSE, A1E= DITTO WITH BATTERY BACKUP
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING T5 2X14W PARABOLIC LOUVRE - A2E=DITTO WITH BATTERY BACKUP
A3 / A3E	1200x300mm RECESSED LIGHT FITTING T5 3X24W PARABOLIC LOUVRE - A3E=DITTO WITH BATTERY BACKUP
B1	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E=DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E= DITTO WITH BATTERY BACKUP
E / E1E	SURFACE BULKHEAD LIGHT FITTING= E26 PHILIPS LED BULB E1E= DITTO WITH BATTERY BACKUP
F / F1E	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E=DITTO WITH BATTERY BACKUP 1x 54W T5
H / H1E	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
J / J1E	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
EXIT	EXIT SIGN
	EXAMINATION LIGHT (30 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
2	2 LEVER, 1 WAY LIGHT SWITCH
2	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO-ELECTRIC CELL (DAYLIGHT SWITCH)

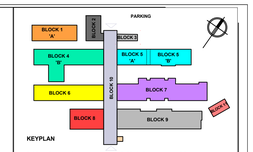


TRANSPORT - POWER LAYOUT
scale - 1:50



TRANSPORT - CABLE LADDER AND TRAY
scale - 1:50

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
W/F-COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
MEDICAL BED HEAD TRUNKING	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
G	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
6A	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR, RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
Ø	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
Ø	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
PP	THERMOSTAT POINT, 60# OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
Hc	REFERS TO HEIGHT OF OUTLET AFFL
FL	REFERS TO FLOOR LEVEL
HL	REFERS TO HIGH LEVEL
CV	REFERS TO CEILING VOID
L	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)



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Richards Bay Tel +27 (0)35 7534605 Fax +27 (0)35 7534608
PO Box 102411 Meerensee 3901 email richardsbay@tjacululand.co.za
Ulundi Tel +27 (0)35 4902954 Fax +27 (0)35 4902700
PO Box 348 Melmoth 3835 email ulundi@tjacululand.co.za
Mkuze Tel +27 (0)35 5731044 Fax +27 (0)35 5731145
PO Box 552 Mkuze 3965 email mkuze@tjacululand.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelia	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 03 - Transport & Tuckshop Lighting and Power Layout & Cable trunking

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

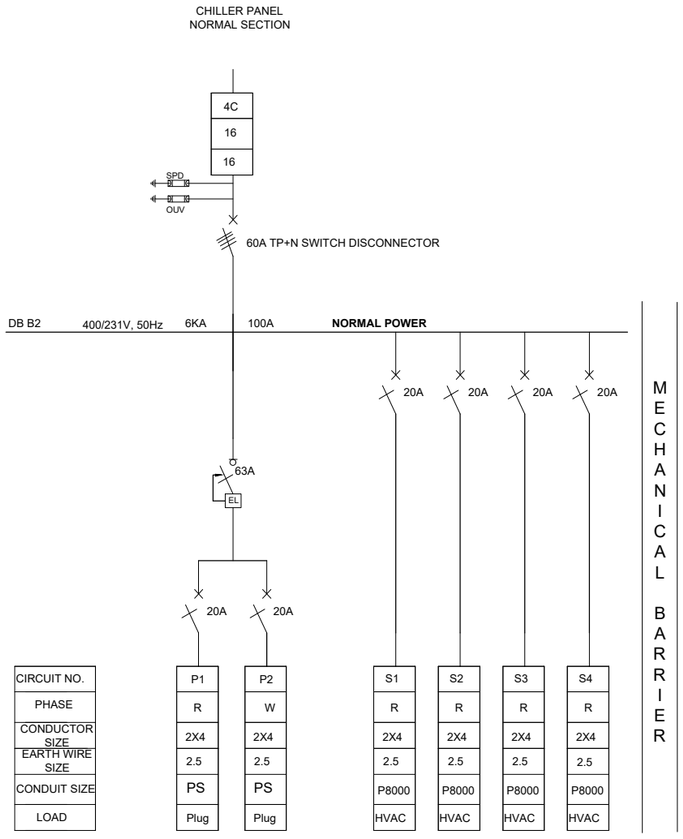
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B3	01	D	0

MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SKETCH PLAN T = TENDER DP = DEVIATION PLAN
PR = PRELIMINARY D = DESIGN

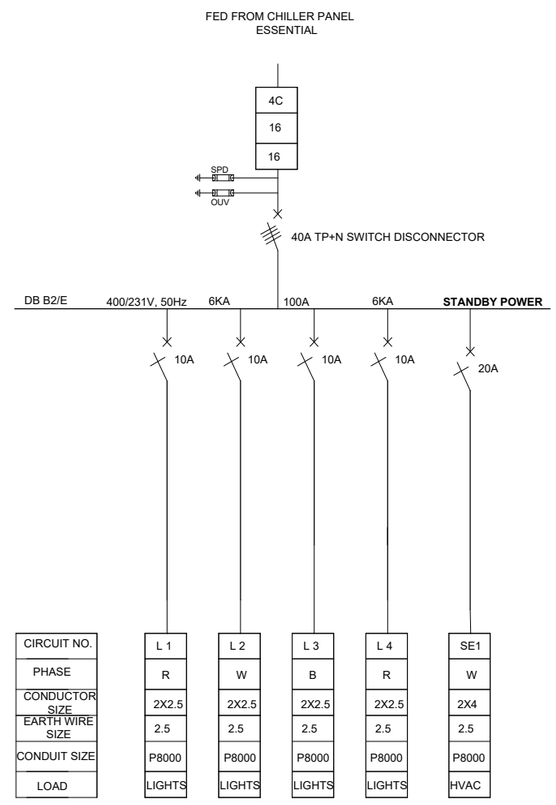
INSTITUTION NO.

K:\3693 Cobble Completion\Preliminary\Model\Revit 22.0\Block 3 - Transport.pln - June 2021

DB B2 / B2E



MECHANICAL BARRIER

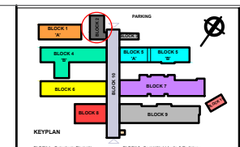


NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

MC = Motor Curve MCB
MCB = Miniature Circuit Breaker
MCCB = Moulded Case Circuit Breaker
E/L = Earth Leakage Unit (Isolator type relay)
OUV = Over Under Voltage
SPD = Surge Protection Device

DESIGNATION	DB-Block2 non Essential	DB-Block 2 ESSENTIAL	DESIGNATION	DB-Block2 non Essential	DB-Block 2 ESSENTIAL	DESIGNATION	DB-Block2 non Essential	DB-Block 2 ESSENTIAL	DESIGNATION	DB-Block2 non Essential	DB-Block 2 ESSENTIAL	DESIGNATION	DB-Block2 non Essential	DB-Block 2 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-2	Block-2	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	CHILLER PANEL)	CHILLER PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP65	IP65	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	80 A	80 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
ELECTRICAL ENGINEERS
Dihlase Consulting Engineers
201 Kent House
1 Neptune Road
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Dihlase CONSULTING ENGINEERS Practical Innovation an EDK company

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KZN WORKS

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PO Box 1834 Ulundi 3838 email tjaulundi@telkomsa.net
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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mosha	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 02 - Ablution Schematic

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3639	B2	03	D	0

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
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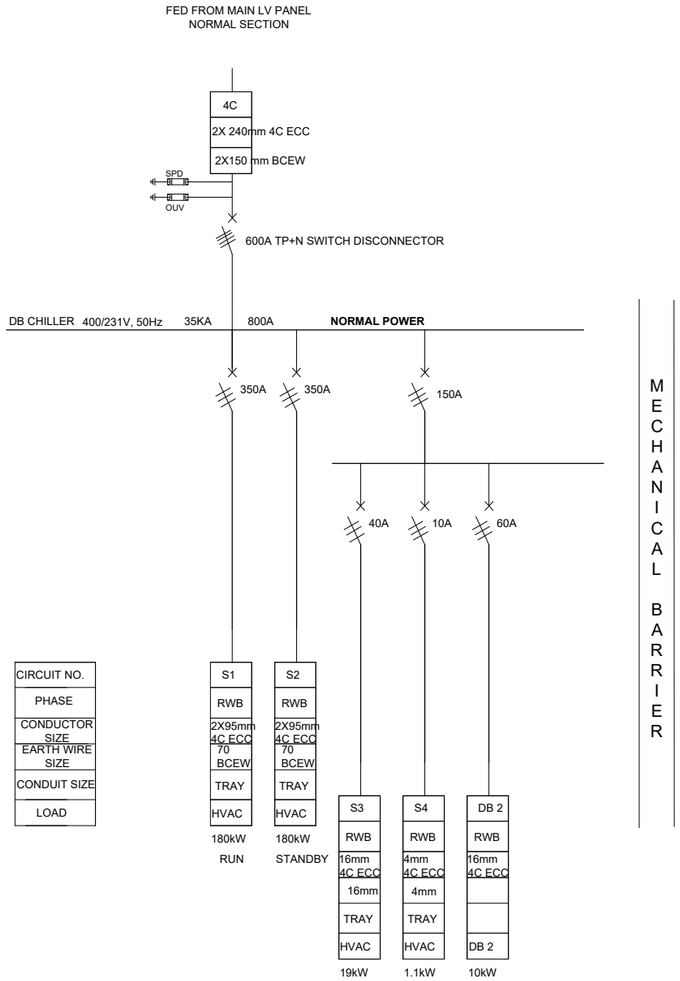
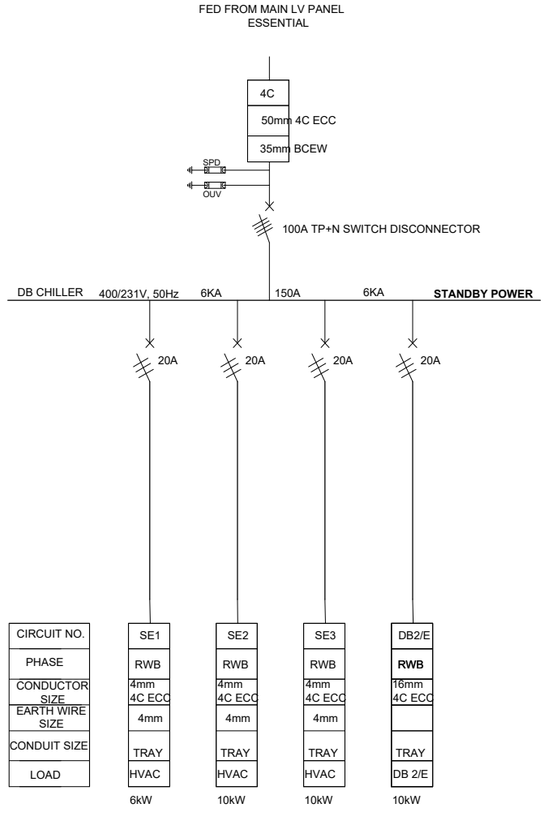
INSTITUTION NO.



MECHANICAL BARRIER



NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
2. The DB is to adhere to the minimum safety requirements for the SANS 10142-1:2003, Section 6.6 - Distribution Board

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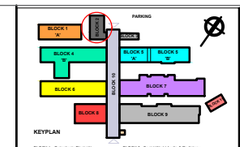
FED FROM	CHILLER PANEL)	CHILLER PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP65	IP65	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	800 A	150 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO



LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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201 Kai Road
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Dihlase CONSULTING ENGINEERS Practical Innovation an ESKOM company

CLIENT:

KZN WORKS

PROVINCE OF KWAZULU-NATAL

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PO Box 352 Mtubatuba 3965 email mtubatuba@tjazuland.co.za

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelfa	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 02 - Chiller Schematic

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3639	B2	02	D	0

MD = MEASURED DRAWING SP = SKETCH PLAN PR = PRELIMINARY
MA = MUNICIPAL APPROVAL T = TENDER D = DESIGN
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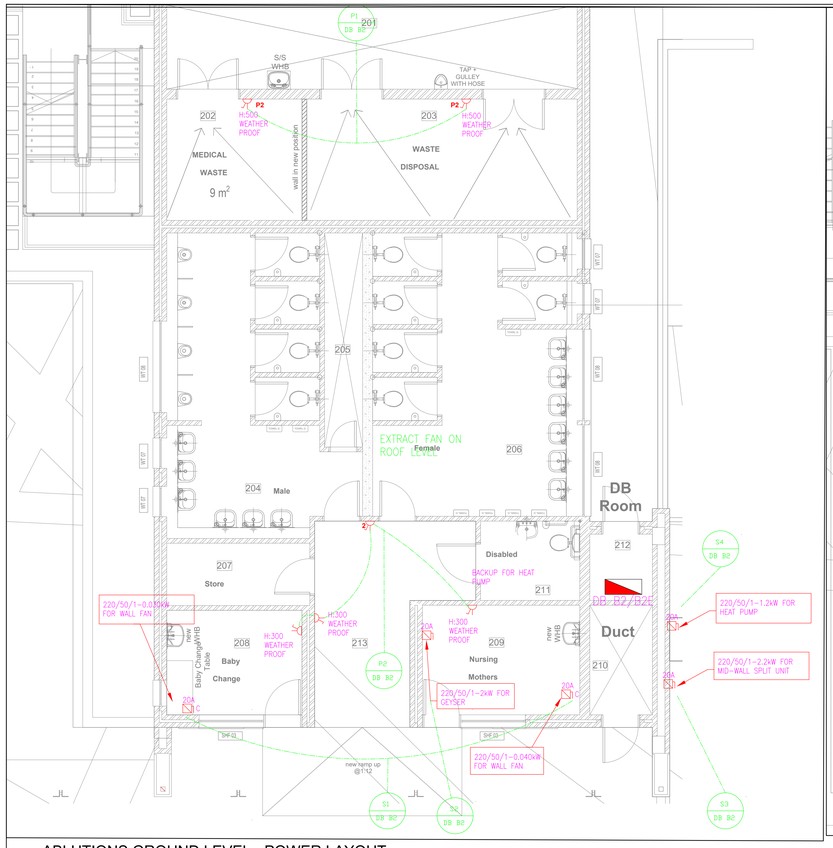
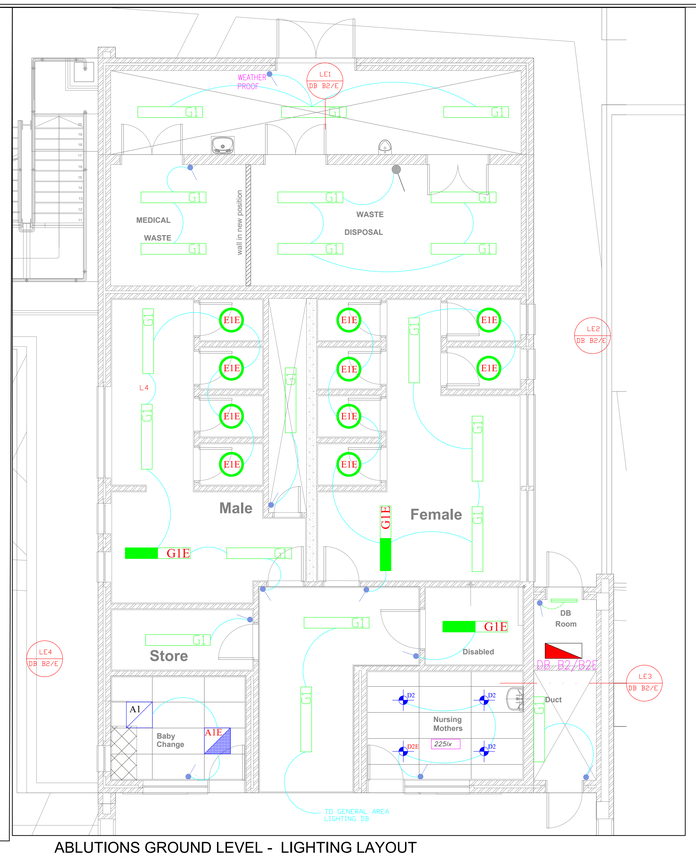
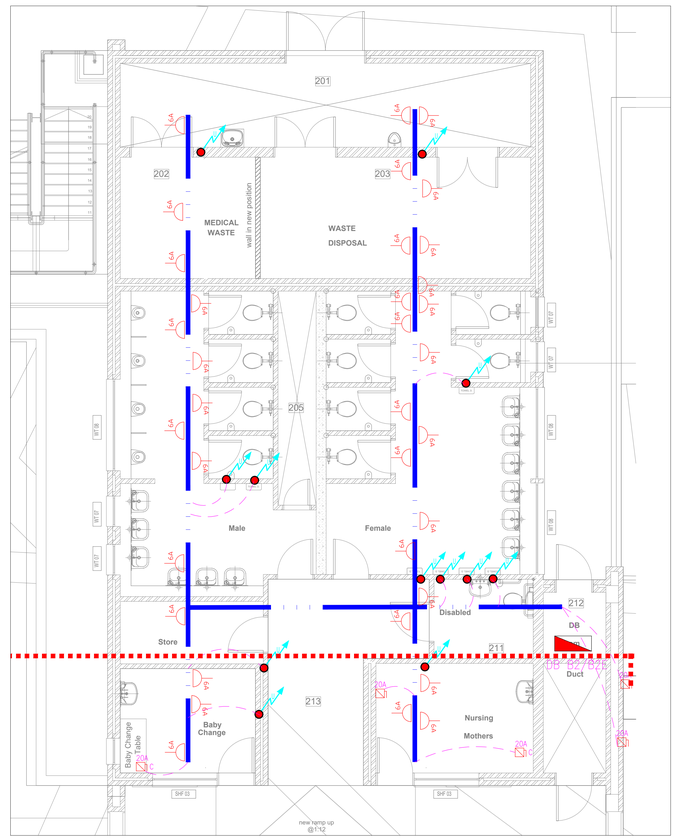
INSTITUTION NO.



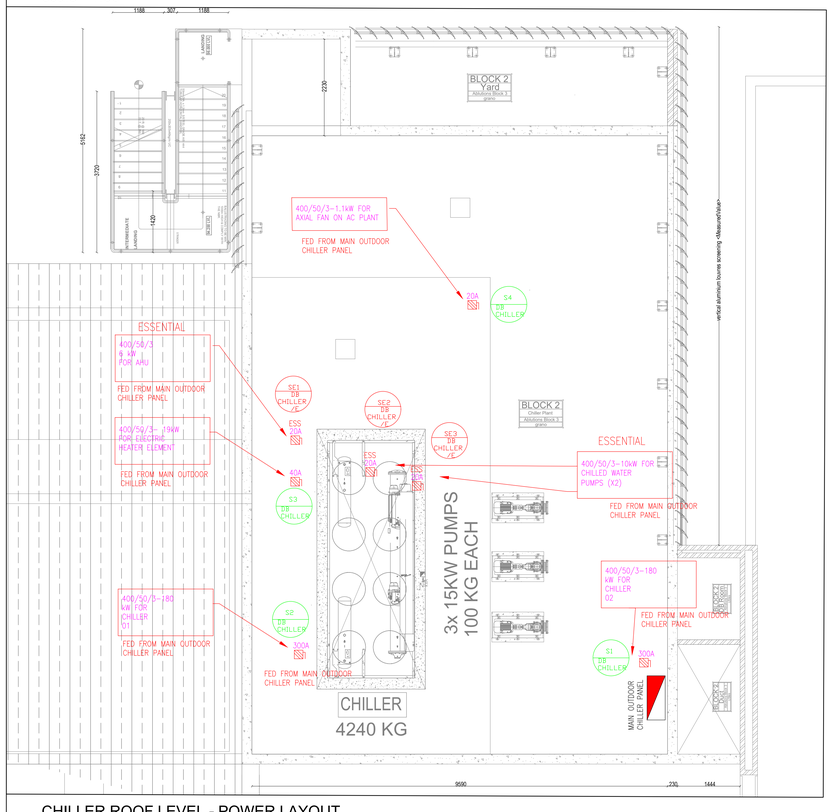
ABLUTIONS GROUND LEVEL - POWER LAYOUT
scale - 1:50



ABLUTIONS GROUND LEVEL - LIGHTING LAYOUT
scale - 1:50



ABLUTIONS GROUND LEVEL - TRUNKING LAYOUT
scale - 1:50

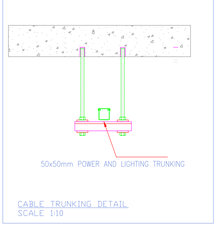


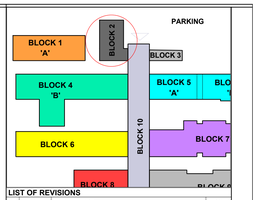
CHILLER ROOF LEVEL - POWER LAYOUT
scale - 1:50

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
PB/-COMP	POWERSKIRTING, HEIGHT AFFL/COMPARTMENT SIZE AS INDICATED
	MEDICAL BED HEAD TRUNKING, HEIGHT AFFL
	SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
G	ESSENTIAL SINGLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
2	DOUBLE SWITCHED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
D	DEDICATED SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
U	UPS SOCKET OUTLET @ 300mm AFFL UNLESS OTHERWISE STATED
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
T	TELEPHONE OUTLET INSTALLED ON POWER SKIRTING
D	DATA OUTLET INSTALLED ON POWER SKIRTING
	WELDING SOCKET OUTLET, RATING AS INDICATED
	SINGLE PHASE ISOLATOR, RATING AS INDICATED
C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	THREE PHASE ISOLATOR, RATING AS INDICATED
	SINGLE PHASE ISOLATOR WITH CONNECTION OUTLET
	THREE PHASE ISOLATOR WITH CONNECTION OUTLET, RATING AS INDICATED
	THERMOSTAT POINT, 60# OUTLET @ 1400mm AFFL WITH 20mm CONDUIT LINK INTO CEILING VOID
PP	POWER POLE
PB	POWER BOX, CAST IN FLOOR
WP	REFERS TO WEATHER-PROOF
Hi:	REFERS TO HEIGHT OF OUTLET AFFL
FL:	REFERS TO FLOOR LEVEL
HL:	REFERS TO HIGH LEVEL
CV:	REFERS TO CEILING VOID
1	100x50 CONDUIT BOX BEHIND POWER SKIRTING
	25mm CONDUIT TURNED UP ("D" FOR DOWN)

LEGEND	
A1 / A1E	600 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSE. A1E- DITTO WITH BATTERY BACKUP — T5 3X14W
A2 / A2E	600 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE -- A2E-DITTO WITH BATTERY BACKUP — T5 2X14W
A3 / A3E	1200x300mm RECESSED LIGHT FITTING PARABOLIC LOUVRE -- A3E-DITTO WITH BATTERY BACKUP — T5 3X24W
B3	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER — T5 3X28W
B1E	1200 x 600mm RECESSED LIGHT FITTING PRISMATIC DIFFUSER WITH BATTERY BACKUP — T5 3X28W
B2	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE — T5 3x28W
B2E	1200 x 600mm RECESSED LIGHT FITTING PARABOLIC LOUVRE WITH BATTERY BACKUP — T5 3x28W
B3	1200 x 600mm SURFACE MOUNT LIGHT FITTING T5 3X28W PRISMATIC DIFFUSER
D1 / D1E	158mm Ø 25W LED DIFFUSED DOWNLIGHT D1E-DITTO WITH BATTERY BACKUP
D2 / D2E	70mm Ø 10W LED DIFFUSED DOWNLIGHT 53° beam angle D2E- DITTO WITH BATTERY BACKUP
E1 / E1E	SURFACE BULKHEAD LIGHT FITTING- E26 PHILIPS LED BULB E1E- DITTO WITH BATTERY BACKUP
F1	600 x 135mm SUSPENDED LIGHT FITTING 1X 14W T5
G1 / G1E	1500 x 110mm MOISTURE PROOF SURFACE LIGHT FITTING G1E-DITTO WITH BATTERY BACKUP — 1x 54W T5
H1 / H1E	1200 x 135mm SUSPENDED LIGHT FITTING 1X28W T5
I1 / I1E	1500 x 135mm SUSPENDED LIGHT FITTING 1X 35W T5
EXIT	EXIT SIGN
	EXAMINATION LIGHT (30 000 lx)
	100X50mm CONDUIT BOX WITH 20mm CONDUIT TO CEILING VOID FOR AIRCON CONTROL PANEL
	1 LEVER, 1 WAY LIGHT SWITCH
2	2 LEVER, 1 WAY LIGHT SWITCH
	1 LEVER, 2 WAY LIGHT SWITCH
D	1 LEVER, DIMMER LIGHT SWITCH
	OCCUPANCY SENSOR
	PHOTO-ELECTRIC CELL (DAYLIGHT SWITCH)

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT





LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
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Dihlase Consulting Engineers
201 Kent House
1 Neptune Road
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Tel:(031) 266-7861
Fax:0867656088
E-mail:don@dihlase.co.za

Dihlase CONSULTING ENGINEERS Practical Innovation an ECSA company

CLIENT:

KZN WORKS

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	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvela	JUNE 2021	1:50
CHECKED	M.Bhayat	JUNE 2021	SHEET SIZE
APPROVED			A0

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 02 - Ablution & Chiller Lighting and Power Layout

DRAWING INFORMATION

DRAWING TITLE
STAGE 3 - DESIGN

PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3639	B2	01	D	0

MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
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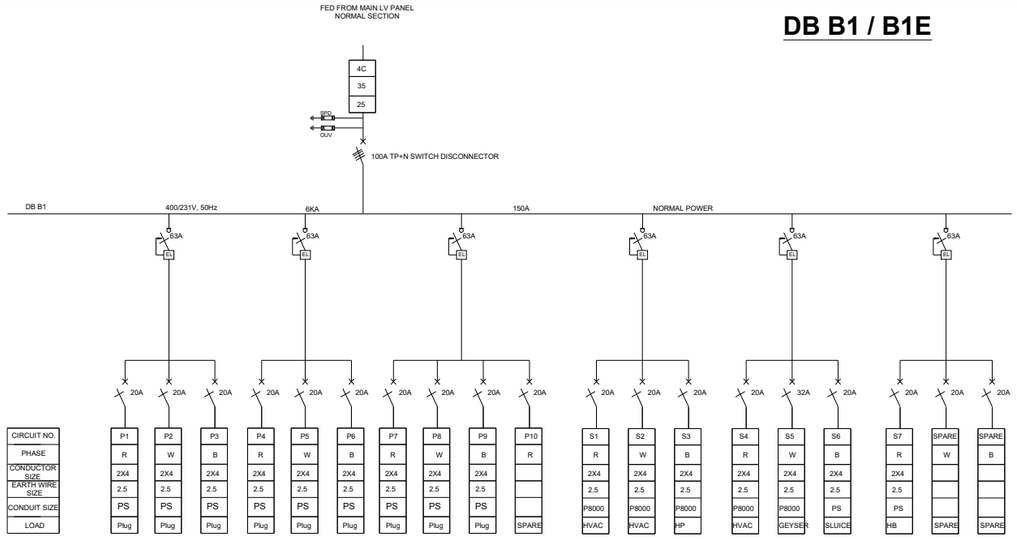
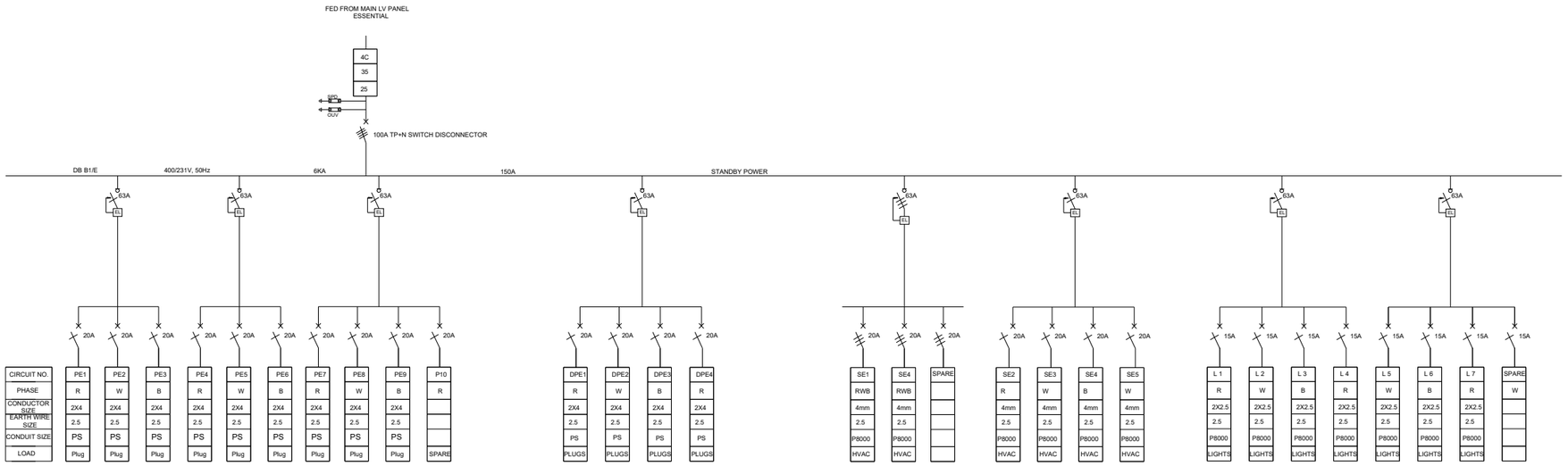
INSTITUTION NO.

DB B1 / B1E



MECHANICAL BARRIER



DESIGNATION	DB-Block 1 non Essential	DB-Block 1 ESSENTIAL	DESIGNATION	DB-Block 1 non Essential	DB-Block 1 ESSENTIAL	DESIGNATION	DB-Block 1 non Essential	DB-Block 1 ESSENTIAL	DESIGNATION	DB-Block 1 non Essential	DB-Block 1 ESSENTIAL	DESIGNATION	DB-Block 1 non Essential	DB-Block 1 ESSENTIAL
SPARE CAPACITY	30%	30%	CABLE ENTRY	TOP/BOTTOM	TOP/BOTTOM	MAINS ISOLATOR EXPOSED	NO	NO	MAINS ISOLATOR EXPOSED	NO	NO	COLOUR	ORANGE	RED
LOCATION	Block-1	Block-1	FAULT LEVEL	6KA	6KA	ACCESS	FRONT	FRONT	ACCESS	FRONT	FRONT	PAINT	E.P.C	E.P.C
FED FROM	MLVP (MAIN LV PANEL)	MLVPE (MAIN LV PANEL ESSENTIAL)	FEEDER CABLE SIZE	SEE BLOCK DIAGRAM	SEE BLOCK DIAGRAM	CIRCUIT EXITS	TOP/BOTTOM	TOP/BOTTOM	IP RATING	IP42	IP42	TYPED LEGEND CARD	YES INSIDE DOOR	YES INSIDE DOOR
VOLTAGE	400/231V	400/231V	SURGE PROTECTION	YES	YES	OUTER DOORS REQUIRED	YES	YES	BUSBAR CURRENT DENSITY	2A/mm^2	2A/mm^2	SWITCHGEAR PERMITTED	M&G/ABB/SCHNEIDER	M&G/ABB/SCHNEIDER
BUSBAR RATING	150 A	150 A	MOUNTING	FLOOR MOUNTED	FLOOR MOUNTED	PADLOCKABLE	YES	YES	MATERIAL	M/S 1.6mm	M/S 1.6mm	CONTACTORS	LAVATO	LAVATO

NOTES :

1. Panel assembly to be constructed in accordance with the SANS 1473-1 : 2003 &/or SANS 1765
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LIST OF REVISIONS

NO.	DATE	DESCRIPTION	DRAWN

CONSULTANT:
ELECTRICAL ENGINEERS
DIhlase Consulting Engineers
4 Rockdale Avenue
Westville
Durban
Tel:(031) 266-7861
Fax:0867605088
E-mail:dbn@dihlase.co.za

CLIENT:

KZN WORKS

PROVINCE OF KWAZULU-NATAL

HEAD: WORKS

TJ Architects (Pty) Ltd
2002/00183/07

Unit GR10, Business Partners, 23 Jan Hofmeyr Rd, Westville, Durban, 3610
PO Box 723, Westville, 3630
Tel +27 (0)31 266 8386, Fax +27 (0)31 266 0437
tjadmin@tjadbn.co.za, www.tja.co.za

Directors: Jodi Davids-Harber, Gerhard le Roux

	RESPONSIBLE PERSON	DATE	SCALE
DRAWN	Z.Mvelle	JUNE 2021	1:50
CHECKED	M. Bheyat	JUNE 2021	SHEET SIZE
APPROVED			A3

CLIENT INFORMATION

CLIENT NAME
DEPARTMENT OF PUBLIC WORKS - KZN

USER DEPARTMENT
DEPARTMENT OF HEALTH

PROJECT INFORMATION

PROJECT DESCRIPTION
KING DINUZULU HOSPITAL -TB COMPLEX COMPLETION CONTRACT

SITE DESCRIPTION
BLOCK 01 - Outpatients Block 'A' Schematic

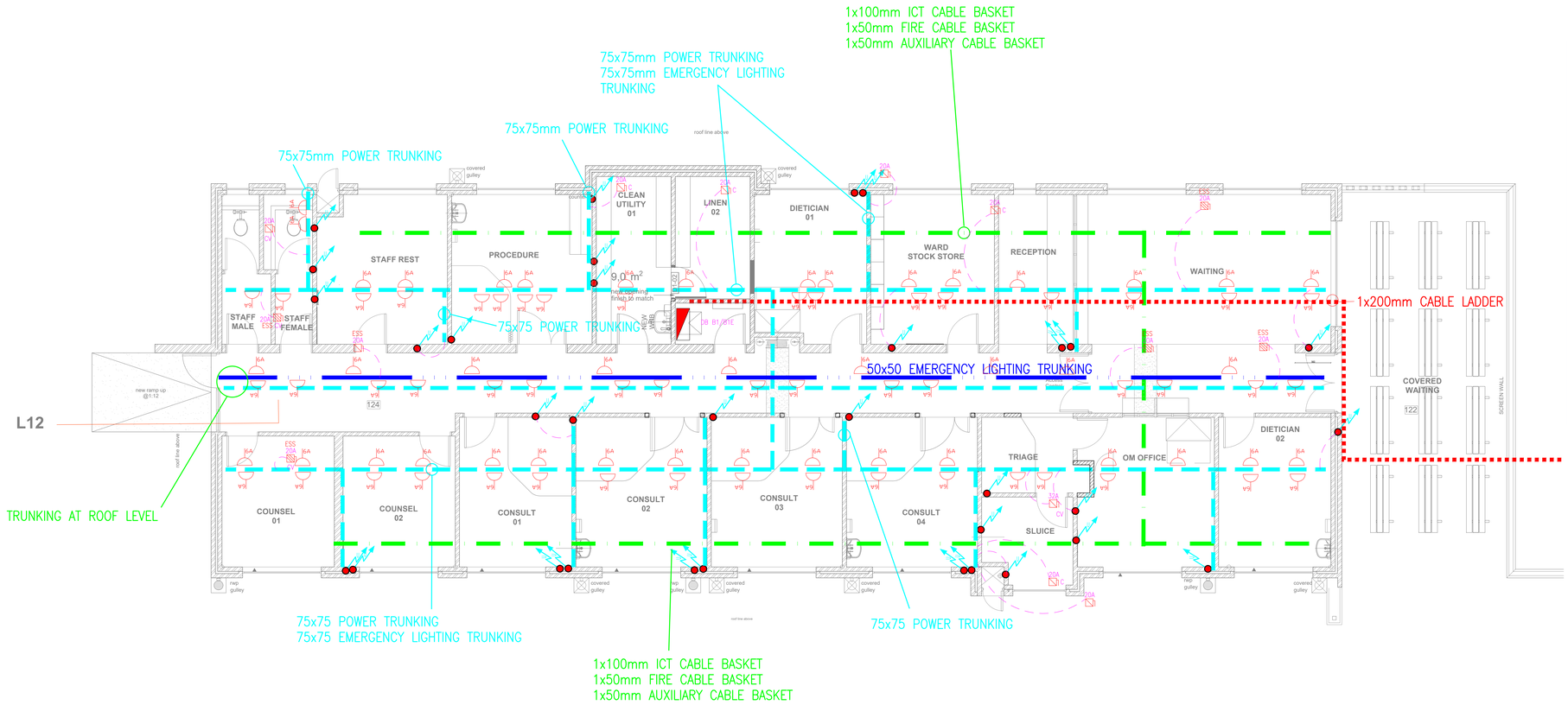
DRAWING INFORMATION

DRAWING TITLE
STAGE 4 - TENDER

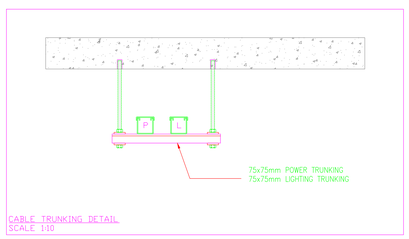
PROJECT NUMBER	SUB-No.	DRAWING NUMBER	STATUS	REVISION
3693	B1	03	T	0

MD = MEASURED DRAWING MA = MUNICIPAL APPROVAL WD = WORKING DRAWING
SP = SWITCH PLAN T = TENDER DP = DEVIATION PLAN
PRE = PRELIMINARY D = DESIGN

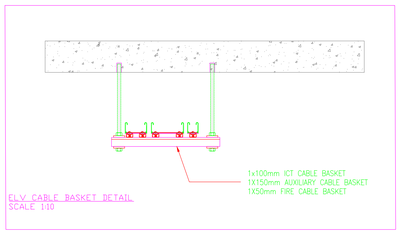
INSTITUTION NO.



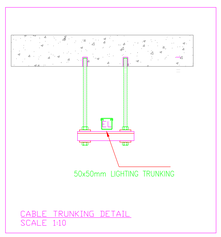
OUTPATIENTS BLOCK 'A'
CABLE TRUNKING LAYOUT
scale - 1:50



CABLE TRUNKING DETAIL
SCALE 1:10

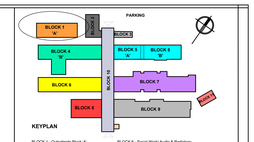


ELV CABLE BASKET DETAIL
SCALE 1:10



CABLE TRUNKING DETAIL
SCALE 1:10

LEGEND	
	ELECTRICAL DISTRIBUTION BOARD
6A AC	6A SOCKET OUTLET IN CEILING VOID FOR AIR-CONDITIONING
6A	6A SOCKET OUTLET IN CEILING VOID FOR LIGHTING
	2 X 25mm CONDUIT TURNED UP ("D" FOR DOWN)
CV	POWER SUPPLY ISOLATOR, 3ph IN CEILING VOID, RATING AS INDICATED
CV	SINGLE PHASE ISOLATOR, IN CEILING VOID RATING AS INDICATED
20A C	SINGLE PHASE ISOLATOR WITH CORD GRIP, RATING AS INDICATED
	ELECTRICAL CABLE LADDER ROUTE
	ELECTRICAL TRUNKING (PRIMARY ROUTE)
	ICT CONTAINMENT TRAYS (PRIMARY ROUTE)
	ELECTRICAL TRUNKING (50 X 50mm)
	25mm PVC CONDUIT



BLOCK 1 - Outpatients Block 'A'
BLOCK 2 - Adultcm Chiller
BLOCK 3 - Transport Tuckshop
BLOCK 4 - Records Block 'A'
BLOCK 5 - Records Block 'A'
BLOCK 6 - Social Work/ Audio & Radiology
BLOCK 7 - Occupational Therapy/ Physiotherapy
BLOCK 8 - Staff Complex
BLOCK 9 - Pharmacy
BLOCK 10 - Covered walkway
BLOCK 11 - Waste

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