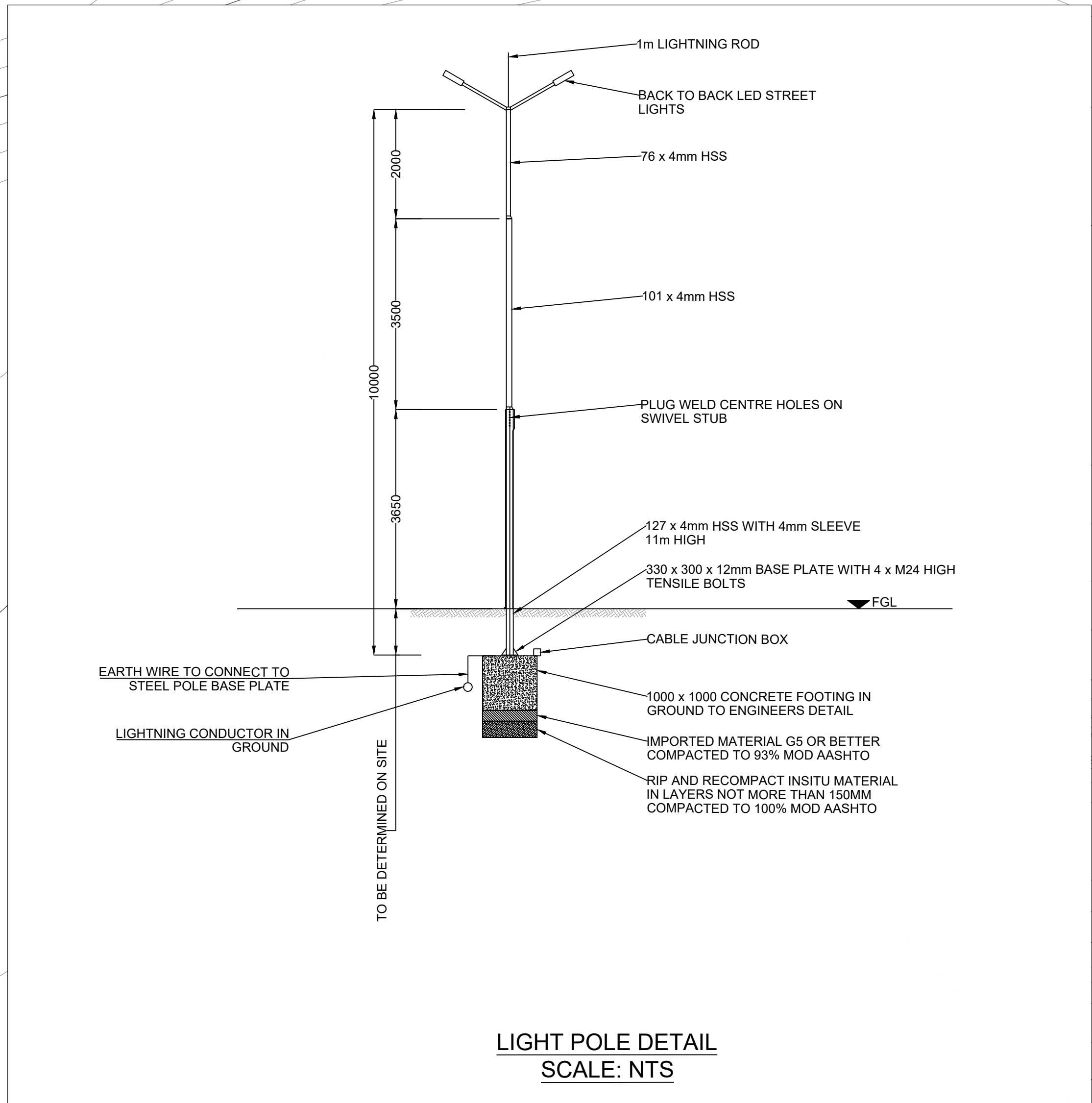




LEGEND & NOTES

- DB
- 10m MID-HINGE STEEL POLE WITH BASE PLATE ON 1000 x 1000 CONCRETE PLINTH WITH BACK TO BACK LED STREETLIGHTS
- 10m STEEL POLE PLANTED IN GROUND WITH SINGLE LED STREETLIGHT
- CABLES REFER TO SPECIFICATION FOR DETAILS
- LEVEL TRANSMITTER ON ROOF

LEGEND:

- EXISTING AC PIPELINE
- EXISTING STEEL PIPELINE
- NEW WATER PIPELINE
- WATERMAIN TO BE ABANDONED
- NEW STRUCTURAL FEATURE
- NEW STORMWATER PIPE
- NEW STORMWATER CHANNEL
- EXISTING STORMWATER PIPE
- NEW ACCESS ROAD
- NEW FENCE
- NEW STORMWATER MANHOLE
- NEW STORMWATER FIELD INLET
- NEW METER
- TAPER
- VALVE
- CONTROL VALVE
- BUTTERFLY VALVE
- AIR VALVE

ETHEKWINI WATER AND SANITATION

WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

CONSULTANT:

NAIDU CONSULTING

1st Floor
No.5, The Boulevard
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Vereville, Durban
Tel: +27 (0) 31 265 6007
Fax: +27 (0) 31 265 6011
Email: info@naiduconsulting.com

26/09/2025

Drawing No.: D724-52-7000 REV 0

FOR TENDER

REFERENCE DRAWINGS (D724-52-...)

DWG No.	TITLE/DESCRIPTION
7000	ELECTRICAL, LIGHTING & INSTRUMENTATION LAYOUT
7001	RESERVOIR PLAN LIGHTNING PROTECTION & EARTHING LAYOUT
7002	TELEMETRY ROOM - ELECTRICAL INSTRUMENTATION & EARTHING LAYOUT
7003	P&ID DIAGRAM

0	09/2025	ISSUED FOR TENDER
Revision	Date	Description

NORTH POINT

Contract No. 32547 - 5W

Project No. X8388

Planning Unit
WATER AND SANITATION

Ward No. 64

Project Title
MOBENI 2 RESERVOIR ASSOCIATED WORKS

Drawing Title
ELECTRICAL, LIGHTING AND INSTRUMENTATION LAYOUT

Scale: 1:300

Designed: D. Govender Date: 09/2025

Checked: D. Govender Drawn: T. Moodley

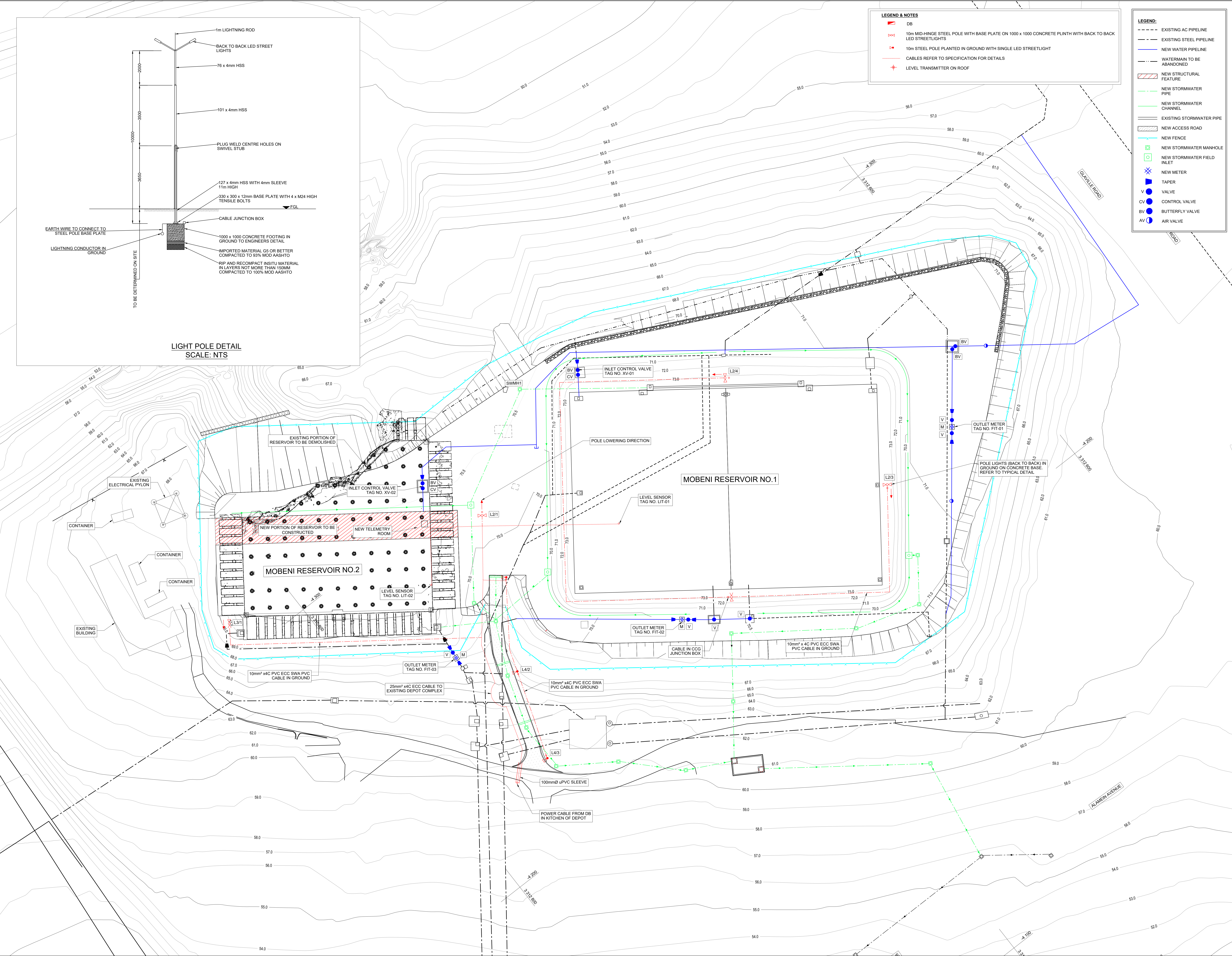
Area Engineer

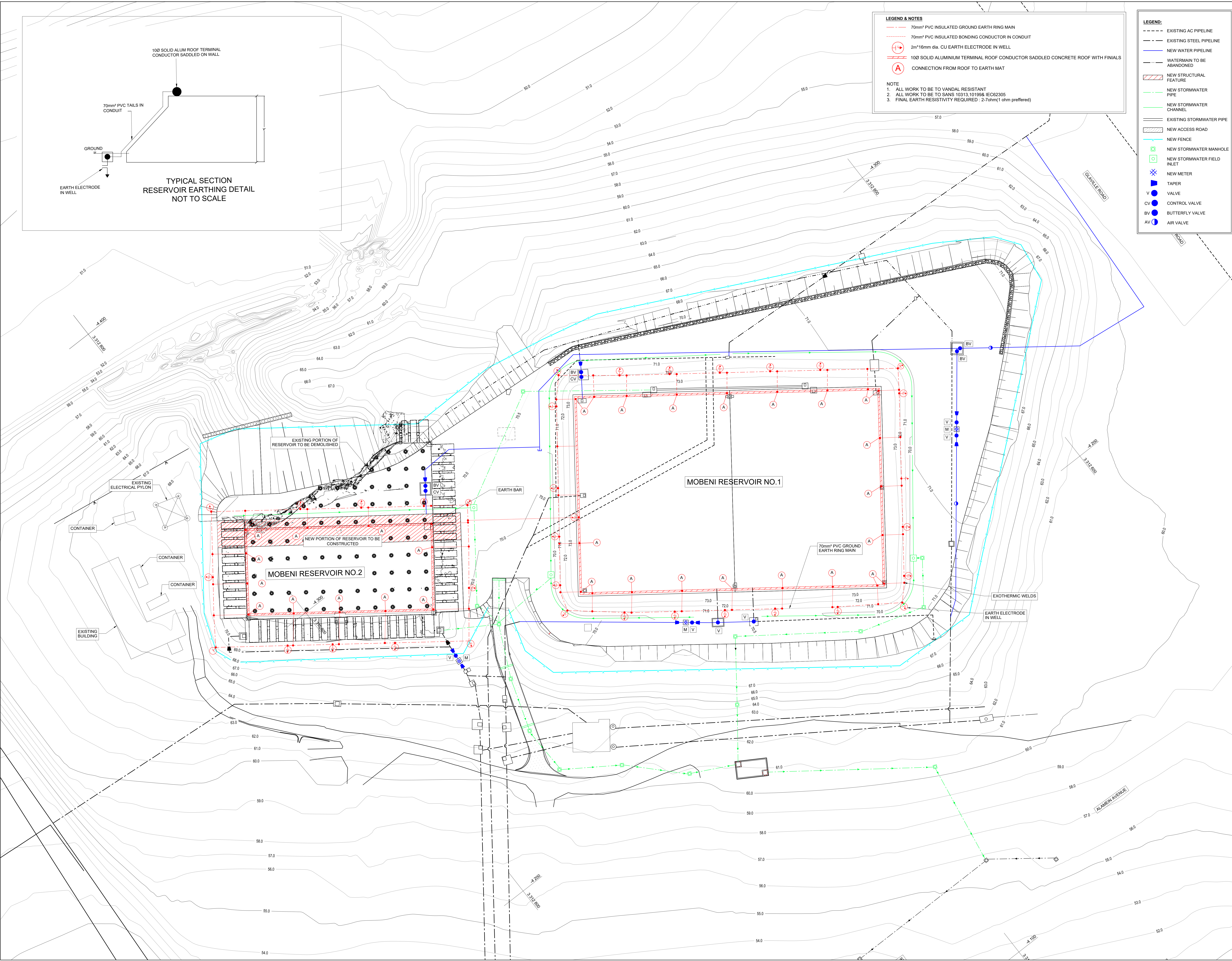
Manager (Water Design)

Deputy Head (Engineering)

E. MSWELI - Head (W & S)

Drawing No. 60591/024 1 of 1 0





LEGEND & NOTES

- 70mm² PVC INSULATED GROUND EARTH RING MAIN
- 70mm² PVC INSULATED BONDING CONDUCTOR IN CONDUIT
- 2m*16mm dia. CU EARTH ELECTRODE IN WELL
- 100 SOLID ALUMINIUM TERMINAL ROOF CONDUCTOR SADDLED CONCRETE ROOF WITH FINIALS
- CONNECTION FROM ROOF TO EARTH MAT

NOTE

- ALL WORK TO BE TO VANDAL RESISTANT
- ALL WORK TO BE TO SANS 10313.10199& IEC62305
- FINAL EARTH RESISTIVITY REQUIRED : <2.7ohm(1 ohm preferred)

LEGEND:

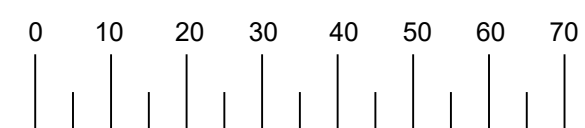
- EXISTING AC PIPELINE
- EXISTING STEEL PIPELINE
- NEW WATER PIPELINE
- WATERMAIN TO BE ABANDONED
- NEW STRUCTURAL FEATURE
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- NEW STORMWATER CHANNEL
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- BUTTERFLY VALVE
- AIR VALVE

ETHEKWINI WATER AND SANITATION



WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW



70mm ON ORIGINAL PLAN

CONSULTANT:

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26/09/2025

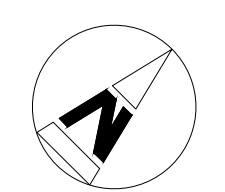
Drawing No.: D724-52-7001 - REV 0

FOR TENDER

REFERENCE DRAWINGS (D724-52-...)

DWG No.	TITLE/DESCRIPTION
7000	ELECTRICAL, LIGHTING & INSTRUMENTATION LAYOUT
7001	RESERVOIR PLAN LIGHTNING PROTECTION & EARTHING LAYOUT
7002	TELEMETRY ROOM - ELECTRICAL INSTRUMENTATION & EARTHING LAYOUT
7003	P&ID DIAGRAM

Revision	Date	Issued For	Description
0	09/2025	ISSUED FOR TENDER	


NORTH POINT

Contract No. **32547 - 5W**

Project No. **X8388**

Planning Unit
WATER AND SANITATION

Ward No.
64

Project Title
MOBENI 2 RESERVOIR ASSOCIATED WORKS

Drawing Title
RESERVOIR PLAN LIGHTNING PROTECTION & EARTHING LAYOUT

Scale	1:300
Designed	D. Govender
Checked	D. Govender
Date	09/2025
Drawn	T. Moodley

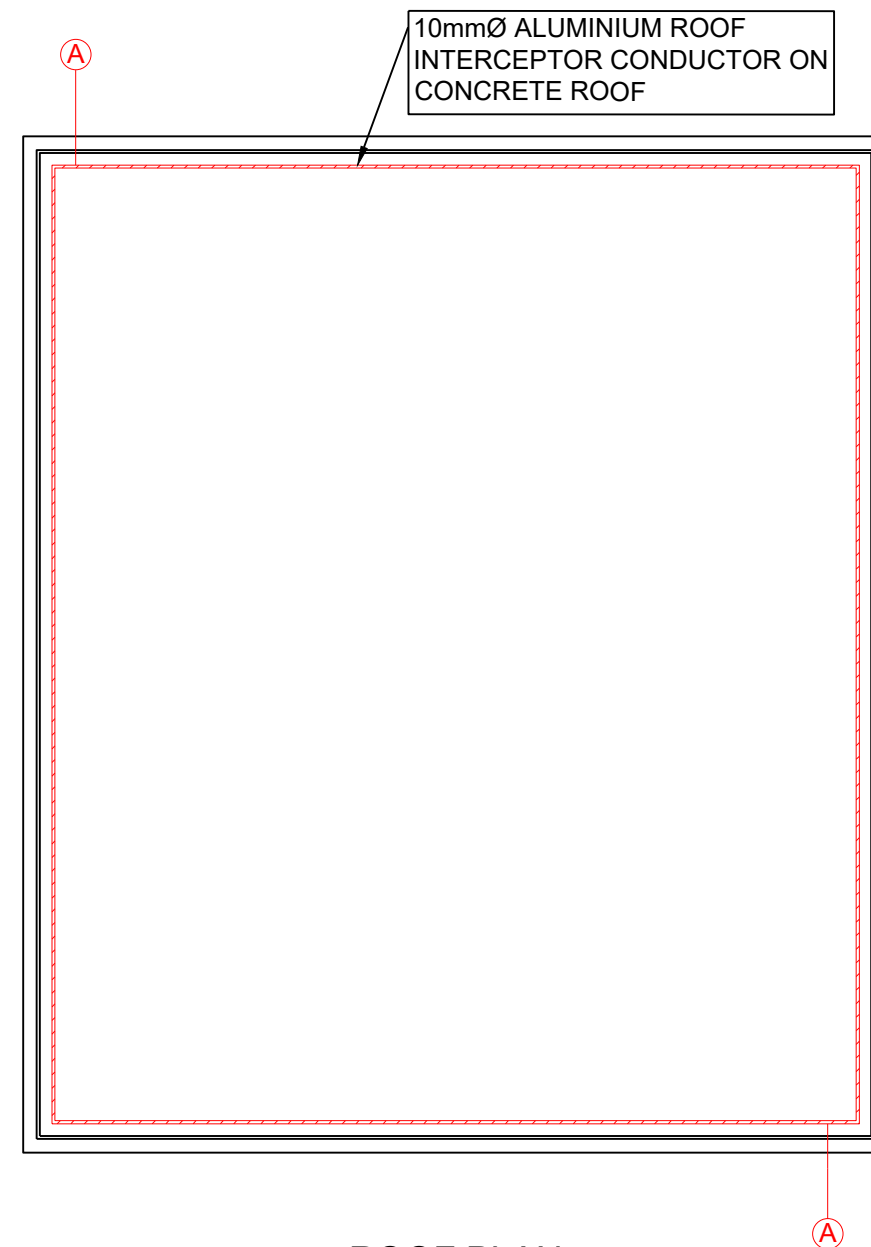
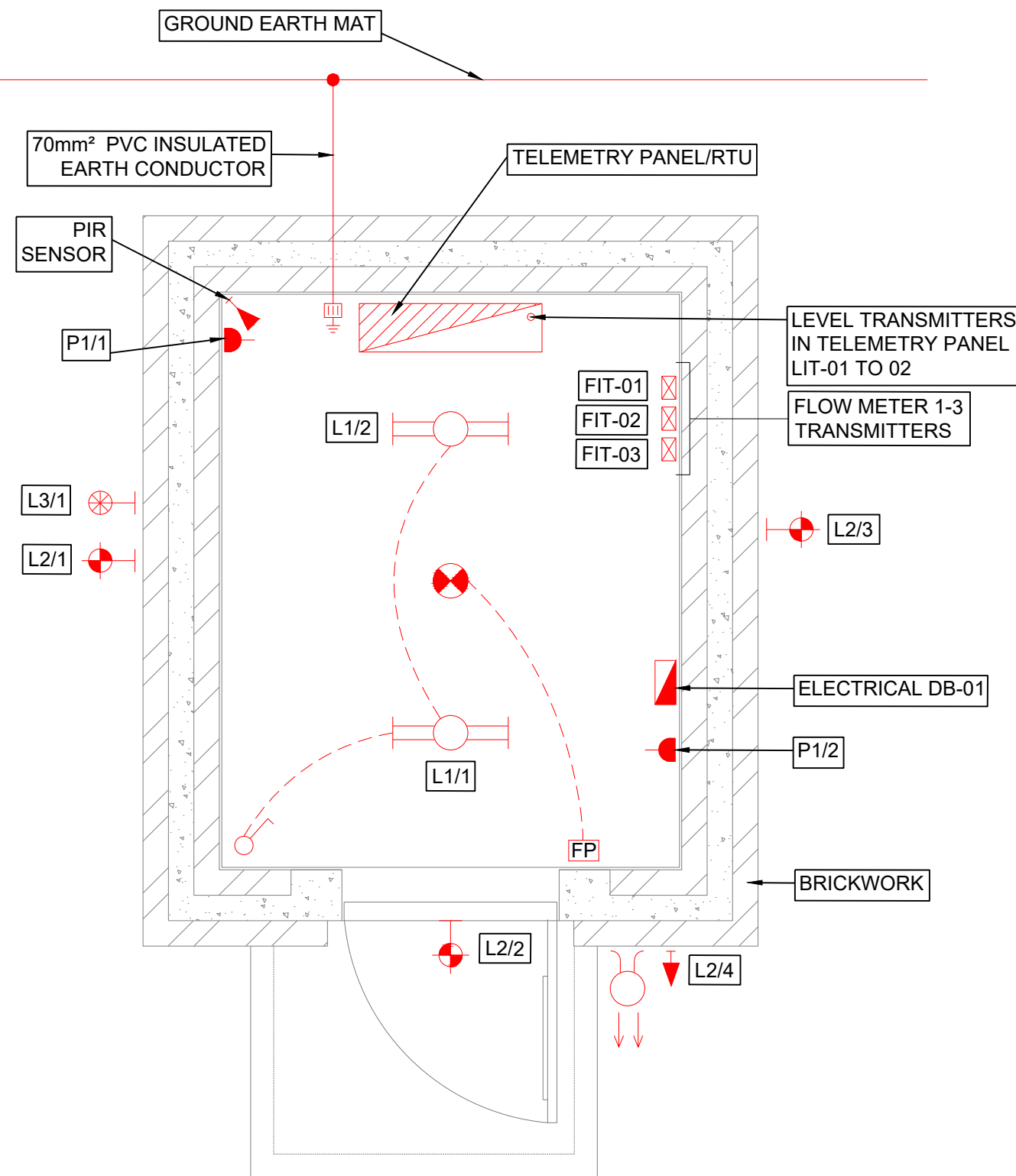
Area Engineer

Manager (Water Design)

Deputy Head (Engineering)

E. MSWELI - Head (W & S)

Drawing No. **60591/025** 1 of 1 0



LEGEND:

- | | |
|---|--|
|  | SURFACE MOUNTED
TELEMETRY PANEL |
|  | ELECTRICAL DB-01 WALL TYPE |
|  | 16A SURFACE SWITCHED
SOCKET OUTLET 1200 AFL |
|  | 1/2 LEVER SURFACE LIGHT
SWITCH 1400 AFL |
|  | PHOTOCELL |
|  | 1.5m x 30W x 2 LED LIGHTS WITH
POLYCARBONATE DIFFUSER |
|  | 30W LED BULKHEAD LIGHT WALL
MOUNTED |
|  | WALL MOUNTED 100W LED
INDUSTRIAL FLOODLIGHT |
|  | PIR INTRUDER ALARM SENSOR |
|  | ALARM SIREN / STROBE LIGHT |
|  | SMOKE FIRE DETECTOR |
|  | FIRE ALARM PANEL |
|  | FLOW METER TRANSMITTER |
|  | 300mm COPPER EARTH BAR |
|  | 70mm² PVC EARTH CONDUCTOR
IN PVC CONDUIT TO EARTH MAT |

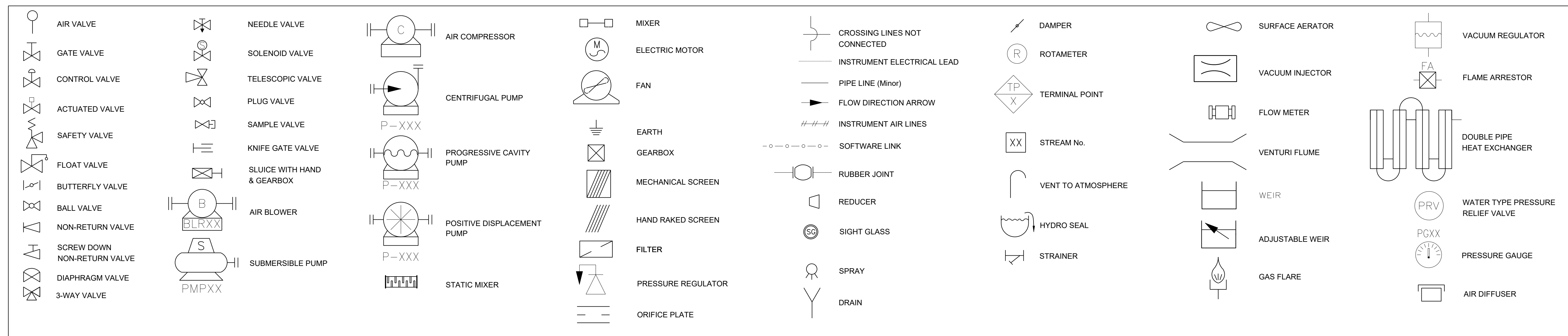
NOTES:

1. ALL SURFACE INSTALLATIONS
2. ALL WORK TO SANS 10142-1

 26/09/2025

FOR TENDER

Consultant Drawing No. D724-52-7002-REV 0		Planning Unit W&S		Ward No. 64			Project No. X8388		Contract No. PSC 2024/003		
 1st Floor No.5, The Boulevard West Way Office Park Westville, Durban Tel : +27 (0) 31 265 6007 Fax : +27 (0) 31 265 6011 Email: info@naiduconsulting.com		eThekwini Water Services  Water Design Branch		Rev	Date	Description	Project Title MOBENI RESERVOIR 2 ASSOCIATED WORKS Drawing Title TELEMETRY ROOM - ELECTRICAL, INSTRUMENTATION & EARTHING LAYOUT Drawing Number 60591/026		Drawn	T. MOODLEY	
				0	09/2025	FOR TENDER			Checked	D. GOVENDER	
									Designed	D. GOVENDER	
									Scale 1:25		Paper Size A3
									Date 09/2025	Sheet 1 of 1	Rev 0



INSTRUMENT ABBREVIATIONS				
LETTER	MEASURED	TRANSMITTERS		READOUT
	VARIABLE	BLIND	INDICATING	INDICATING
A	ANALYSIS	AT	AIT	AI
B	BURNER			
C	CONDUCTIVITY	CT	CTT	CI
D	DENSITY	DT	DTT	DI
E	VOLTAGE	ET	EIT	EI
F	FLOW	FT	FIT	FI
H	HAND			
I	CURRENT	IT	ITT	II
J	POWER	JT	JIT	J
K	TIME	KT	KIT	
L	LEVEL	LT	LIT	
M	MOTOR			
P	PRESSURE	PT	PIT	PIT
PD	PRESSURE DIFF	PDT	PDT	PD
Q	QUANTITY	QT	QIT	
R	RADIATION	RT	RIT	
S	SPEED	ST	SIT	SI
	/FREQUENCY			
T	TEMPERATURE	TT	TTT	TI
V	VIBRATION	VT	VIT	VI
W	WEIGHT/FORCE	WT	WIT	WI
X	UNCLASSIFIED			
Y	EVENT/STATE	YT		YI
Z	POSITION	ZT	ZIT	ZI

