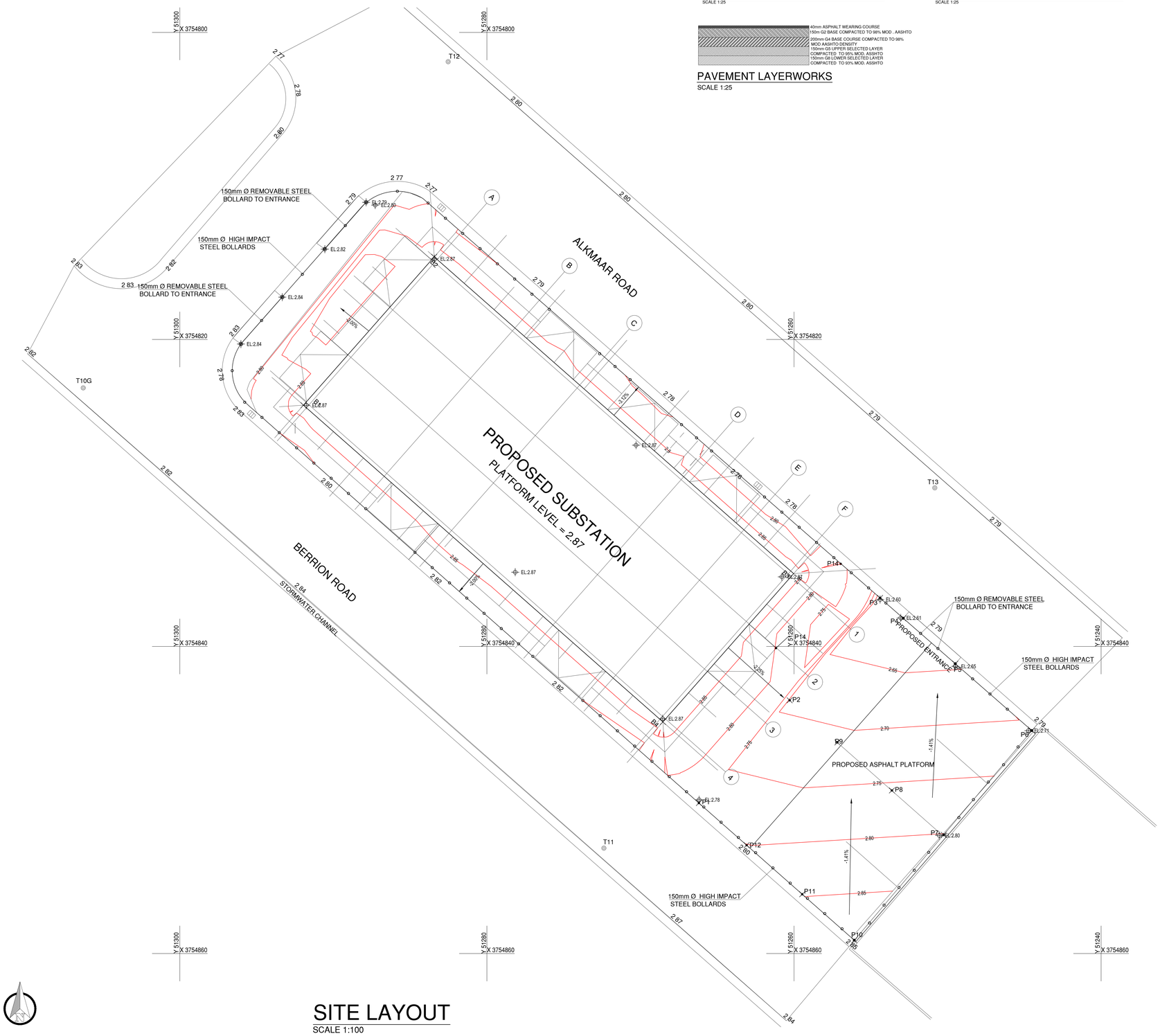
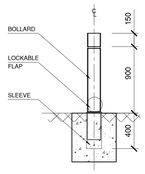
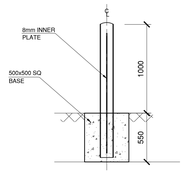


SITE LAYOUT
SCALE 1:100



REMOVABLE BOLLARD (4 NO. OFF)
SCALE 1:25



HIGH IMPACT BOLLARD (90 NO. OFF)
SCALE 1:25

PAVEMENT LAYERWORKS
SCALE 1:25

BENCHMARKS
COORDINATE SYSTEM: WGS84 LO 19°

POINT	Y	X	LEVEL
T10G	51 306.29	3 754 823.16	2.866
T11	51 272.38	3 754 853.14	2.890
T12	51 282.52	3 754 801.91	2.840
T13	51 250.83	3 754 829.67	2.810
4K7	51 698.45	3 755 622.70	4.623

BEACON DESCRIPTION
ALL : STUD IN TAR 4K7: TOWN SURVEY MARK

GENERAL NOTES
1. ALL DIMENSIONS ARE IN MM U.O.N.
2. USE FIGURED DIMENSIONS ; DO NOT SCALE OFF
3. CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & AN DISCREPANCIES REPORTED TO THE ARCHITECT OR ENGINEER.
4. THE CONTRACTOR SHALL SUBMIT A FULL SET OF AS BUILT DRAWINGS UPON COMPLETION OF INSTALLATION.
5. THE CONTRACTOR SHALL TAKE NOTE OF ALL EXISTING SERVICES ON THE PROPOSED SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION WORK.
6. THE PROPOSED ASPHALT PAVING AROUND THE NEW SUBSTATION TO BE SLOPED TO THE EXISTING STORMWATER CHANNEL

EARTHWORKS
1. ALL WORKMANSHIP TO BE IN ACCORDANCE WITH SANS 1200 PART D : EARTHWORKS AND THE RELEVANT PROJECT SPECIFICATIONS AS INCLUDED IN THE CONTRACT.
2. BEFORE PLACING ANY FILL MATERIAL THE EXISTING GROUND SURFACE MUST BE CLEARED AND GRUBBED OF ALL VEGETATION AND ORGANIC MATTER.
3. TOPSOIL 200mm MUST BE STRIPPED AND DISPOSED
4. THE UNCOMPACTED THICKNESS OF FILL LAYERS SHALL NOT EXCEED 300mm.

STAINLESS STEELWORK
1. ALL BOLLARDS TO BE STAINLESS STEEL
2. ALL BOLLARDS TO HAVE A BRUSH OR POLISH FINISH WITH REFLECTIVE BANDS.
3. ALL BOLLARDS TO PLANTED. CONCRETE GRADE TO FOUNDATIONS TO BE 15 MPa

BUILDING SETTING OUT
COORDINATE SYSTEM: WGS84 LO 19°

POINT	Y	X	LEVEL
B1	51 291.946	3 754 824.284	2.870
B2	51 283.430	3 754 814.621	2.870
B3	51 260.022	3 754 835.253	2.870
B4	51 268.538	3 754 844.916	2.870

ASPHALT SETTING OUT
COORDINATE SYSTEM: WGS84 LO 19°

POINT	Y	X	LEVEL
P1	51 266.194	3 754 850.198	2.780
P2	51 260.285	3 754 843.506	2.700
P3	51 254.397	3 754 836.839	2.773
P4	51 252.884	3 754 838.162	2.610
P5	51 249.495	3 754 841.124	2.650
P6	51 244.509	3 754 845.482	2.710
P7	51 250.254	3 754 852.268	2.800
P8	51 253.626	3 754 849.379	2.760
P9	51 257.176	3 754 846.252	2.730
P10	51 256.071	3 754 859.138	2.870
P11	51 259.465	3 754 856.140	2.845
P12	51 263.085	3 754 852.943	2.805

LEGEND	
2.25	PROPOSED CONTOURS
T13	BENCHMARKS
P1	SETTING OUT POINTS
EL:2.87	SPOT ELEVATIONS
T13	BENCHMARKS
	BOLLARDS

APPROVED FOR CONSTRUCTION

CLIENT: TRANSNET national ports authority

Client Name: Transnet National Port Authority (TNPA)

Designation & Section:

Client Signature:

Project Phase 2

Date:

Contact No.'s:

No.	DATE	REVISION DETAIL
0	02/12/2022	ISSUED & APPROVED FOR CONSTRUCTION
1	12/03/2023	SETTING OUT DETAILS & LEGEND ADDED
		CONTOURS DISPLAYED, SIGNATURE ADDED

Main Contractor: Stateway Switchboards

Main Contractor: Stateway Switchboards Pty Ltd

ZML Africa Drawing No.: TNPA/2020

Consultant: Z.M.L Africa Group — Engineering Africa Forward

Sub-Consultant: LUBISI CONSULTING — A NEW PERSPECTIVE TO ENGINEERING CONSULTING

Site Address:
Sturrock Dry Dock, Cape Town

Building Name:
Combined Pump House & Graving Dock Substation

Project Description:
Sturrock Dry Dock Electrical Infrastructure Upgrades

Drawing Description:
Site Layout & Details

Drawn:	E MURATO	Date:	02 / 2021
Designer/ Checked:	E. MURATO	Scale:	AS SHOWN
Approved:	CT PAGIWA	Drawing Size:	A0
Prof Reg. No.	20050009	Revision No.	1
Signature:			

Drawing Number: TNPA/2020-CE-200

Site & Building No.	Floor No.	Discipline & Service Type
-	-	CIVIL ENGINEERING
Sheet Number	**Project Number**	**Proposal No.**
01	TNPA857 CIDB	-