1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

110V DC BTU
BUSWIRES

02-21
*K1-GY

*K1-GY2

55 X13 E
QS 01-6
56 5
X14
K7-GY
13

57 X15 F
QS 01-6
58 6
X16
K9-GY
14

5
TRFR. OVER PRESS.
6
K11-GY
15

10
K52A 04-16 BUCH TRIP
12
K5A-GY

10
K53B 04-16 TEMP TRIP
12
K1B-GY

7
SPARE
8
K13-GY
16

7
SPARE
8
K15-GY
15

F51
33 22 26 25 21 25
INPUT L1 V.C.B. CLOSED
INPUT L2 V.C.B. OPEN
INPUT L3 TRFR. OVER PRESS
INPUT L4 BUCH TRIP OPERATED
INPUT L5 TEMP TRIP OPERATED
34 24 28 19 23 27

F54
33 22 25
INPUT L1 SPARE
INPUT L1 SPARE
34 24 27

K2-GY
02-21

110V DC BTU
BUSWIRES

1E10-R2 7
1E50-B2 110V AC BUSWIRES 9

F7 2A 1 2
F9 2A 1 2

E11-R
E51-B
E11-R

P60
V1 V3 L
POWER SUPPLY
V2 VREF G N
E E

E31-W
E71-BK

F8 2A 2 1
F10 ISOL 2 1

1E30-W2 8
E70-BK2 10
110V AC BUSWIRES

VOLTMETER METERING CIRCUIT

F51- O/C & E/F PROTECTION RELAY
K9-BREAKER STATUS AUX. RELAY TYPE FINDER 60.12
F54- E/F PROTECTION RELAY
P60-POWER METER

CLIENT: TRANSNET national ports authority

Client Name:	
Designation & Section:	ELECTRICAL ENGINEER: PORT ENGINEERING
Client Signature:	Project Phase:
Date:	
Contact No.'s:	

No.	DATE	REVISION DETAIL
00	11-12-2020	ORIGINAL
01	27-11-2022	APPROVED FOR CONSTRUCTION (AFC)

Main Contractor:
Stateway Switchboards (Pty) Ltd.
55 Second Road, Linbro Park Sandton
P.O. Box 1055 Linbro Park 2065
TEL. +27(0) 11 021 7260
FAX. +27(0) 86 503 2258

Main Contractor:	STATEWAY SWITCHBOARDS (PTY.) LTD.
ZML Africa Drawing No.	TNPA/2020

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

Site Address:
Sturrock Dry Dock, Cape Town

Building Name:
Combined Pumphouse and Graving Dock Substation

Project Description:
Sturrock Dry Dock Electrical Infrastructure Upgrades: - Sketch Plan

Drawing Description:
Medium Voltage Schematic Diagram-3MVA Transformer Feeder

Drawn:	P.MAZIBUKO	Date:	29 / 07 / 2021
Designer / Checked:	M.SHEZI	Scale:	AS SHOWN
Approved:	M.SHEZI	Drawing Size:	A3
Prof Reg. No.	20110108	Revision No:	01
Signature:			27/11/2022

Drawing Number: TNPA/2020-000-E-MSCH-0004

Site & Building No.	Floor No.	Discipline & Service Type

Sheet Number	Project Number	Proposal No
002		000