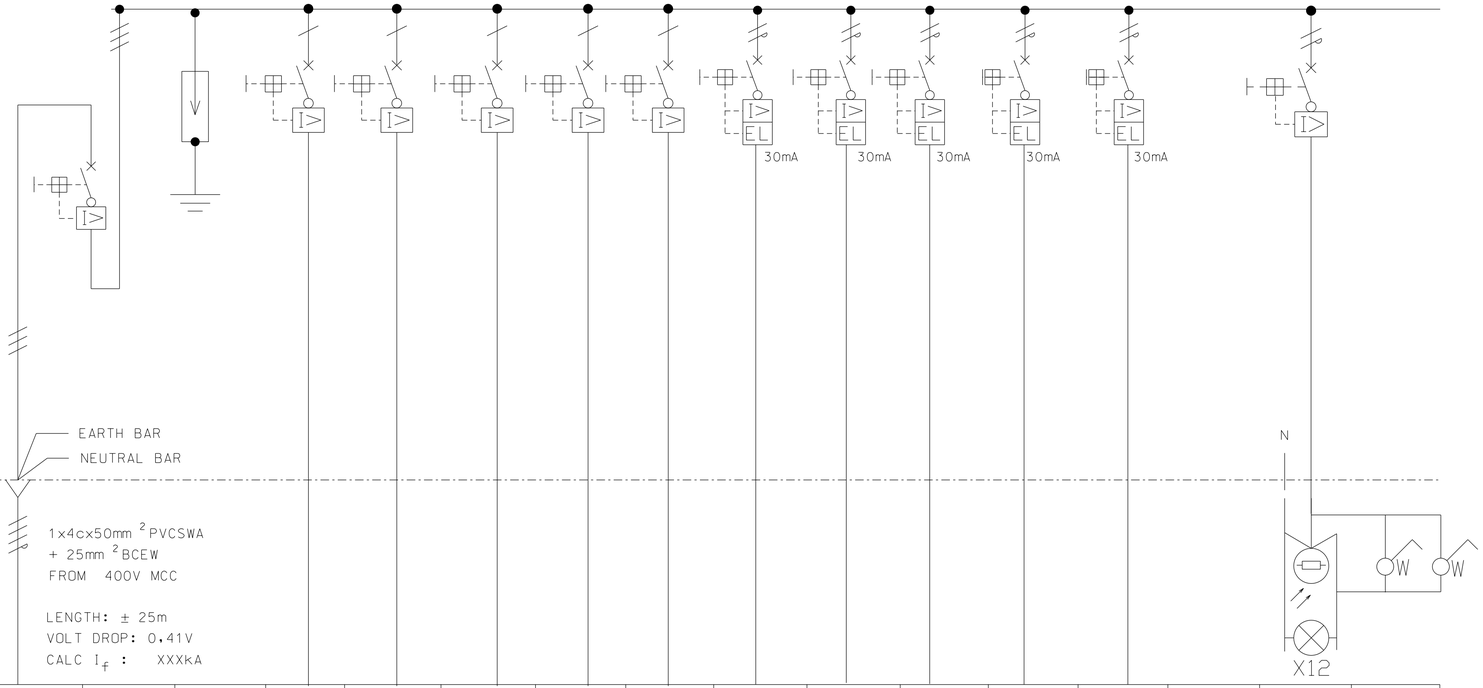
DIVERSE LOAD: 53,74 KVA
70%

DB-A

400V 3PH + N 50Hz 200A BUSBARS: FAULT LEVEL 10kA FOR 1 sec.



1x4cx50mm ^{2} PVCSWA
+ 25mm ^{2} BCEW
FROM 400V MCC

LENGTH: ± 25m
VOLT DROP: 0,41V
CALC I_f : XXXkA

N O T E

ENCLOSURE SHALL BE:
1. MANUFACTURE FROM 1.6mm MILD STEEL
2. FLUSH MOUNTED, FRONT ACCESS
3. ELECTRIC ORANGE IN COLOUR
4. TOP AND BOTTOM ENTRY
5. LOCKABLE DOOR LATCH TYPE: BARKER NELSON SERIES 24
6. EQUIPPED WITH DOORS AND INNER FACIA PLATES
7. ENCLOSURE TO HAVE SPACE FOR 30% ADDITIONAL CIRCUITS
8. BOARD TO BE IP 44
9. SWITCH SOCKET OUTLET NEUTRALS TO BE NUMBERED AS PER CORRESPONDING LIVE CIRCUIT NUMBER

CIRCUIT No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CIRCUIT DESCRIPTION		INCOMER	SURGE PROTECTION	LIGHTS	LIGHTS	LIGHTS	LIGHTS	UPS SUPPLY	SSO	SSO	SSO	SSO	SSO		OUTSIDE LIGHTS	OUTSIDE SWITCH
DEVICE RATING (amps)		150	20kA	5	5	5	5	20	20	20	20	20	20		5	
DEVICE TYPE																
PHASE		R+W+B		R+N	W+N	B+N	R+N	R+N	R+N	W+N	B+N	R+N	R+N		R+N	
AREA OR ROOM No.		-		TRANS. ROOM 1&2	TRANS. ROOM 3&4	S/GEAR ROOM	MCC+FM200 ROOMS		TRANS. ROOM 1&2	TRANS. ROOM 3&4	S/GEAR ROOM	MCC ROOM	MCC+FM200 ROOMS		OUTSIDE OF BUILDING	
No OF UNITS PER CIRCUIT				12	12	15	18	1	4	4	4	3	3		12	
UNIT RATING (VA)				46	46	46	46	1500	3250	3250	3250	3250	3250		36	
LOADING (kVA)	76,772			0.552	0.552	0.690	0.828	1.5	13	13	13	9,75	9,75		0.432	
CONDUCT. No x SIZE (mm^2)				2x2,5	2x2,5	2x2,5	2x2,5	1x4	2x4	2x4	2x4	2x4	2x4		2x2,5	
EARTH WIRE SIZE (mm^2)				2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5		2,5	

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:
Lighting and Small Power lighting DB

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

Drawing Number: TNPA/2020-000-E-LSP-0001

Site & Building No. | Floor No. | Discipline & Service Type
Sheet Number: 003
Project Number:
Proposal No: 000