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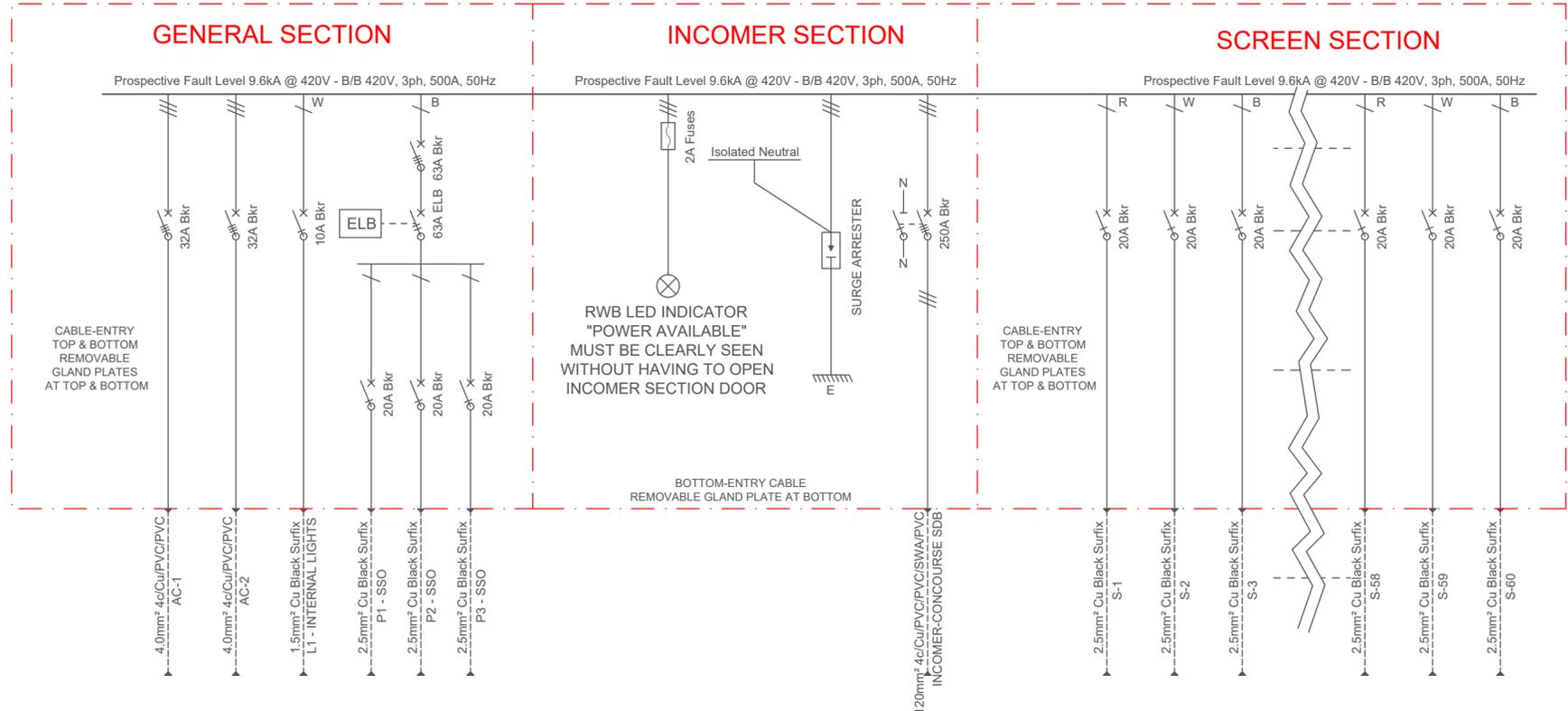
SDB-SCREEN

NOTES

- BOARD NAME: **SDB-SCREEN**
- GENERAL SECTION ON THE LEFT
- INCOMER SECTION IN THE MIDDLE
- SCREEN SECTION ON THE RIGHT

2. INDIVIDUAL SECTIONS MUST HAVE INDIVIDUAL LOCKABLE DOORS

CIRCUIT	BREAKER (SIZE)
INCOMER SECTION	
INCOMER FROM SDB-CONCOURSE	CBI F37D 4P(250A)
INCOMER FROM SDB-CONC EARTH	N/A
SCREEN SECTION	
S1 Thru S60	CBI QF1(26) WHITE (20A)
GENERAL SECTION	
EARTH LEAKAGE BKR	CBI QH-1-(18)-D WHITE (63A)
SSO EARTH LEAKAGE	EARTH LEAKAGE - CBI QH16CD 10kA (63A)
P1 THRU P3 - SSO's	CBI QH-1-(18)-D WHITE (20A)
L1 - INSIDE LIGHTS	CBI QH1-(18)-D WHITE (10A)
AC-1 & AC-2	CBI QH3-18-D WHITE (32A)



CIRCUIT	CABLE/CONDUCTOR	WIREWAY
INCOMER SECTION		
INCOMER FROM SDB-CONC	120mm² 4c/Cu/PVC/PVC/SWA/PVC/600V/1000V	110mm Ø PVC SLEEVE & LADDER
EARTH FROM SDB-CONC	70mm² BCEW	110mm Ø PVC SLEEVE & LADDER
SCREEN SECTION		
S1 Thru S60	2.5mm² 2c (+E) BLACK SURFIX	20mm Ø BOSAL & CABLE RACK
GENERAL SECTION		
P1 TO P3 - SSO's	2.5mm² 2c (+E) BLACK SURFIX	20mm Ø BOSAL & CABLE RACK
L1 - INSIDE LIGHTS	1.5mm² 2c (+E) BLACK SURFIX	20mm Ø BOSAL & CABLE RACK
AC-1 & AC-2	4.0mm² 4C /Cu/PVC/PVC(+GE)	20mm Ø BOSAL & CABLE RACK

DISTRIBUTION BOARDS SPECIFICATION															
INSTALLATION METHOD		ACCESS REQUIREMENTS		CONSTRUCTION DATA		COMPARTMENTS		CABLE ENTRY		FINAL FINISH		ELECTRICAL DATA		SPECIFIED EQUIPMENT	
FLOOR STANDING	OPEN CONSTRUCTION	DOORS	MILD STEEL 1.2mm	SCREEN SECTION	TOP	EPOXY PWDR COATED	MAIN BUSBAR RATING	500A, 9.6kA @ 420V @ Bkr Trip Time	AIR CIRCUIT BREAKER	N/A					
WALL MOUNTED	DOORS	MILD STEEL 1.6mm	SCREEN SECTION	BOTTOM	DB COLOUR	ORANGE	VOLTAGE RATING	420 OPERATING - 600/1000V INS	CIRCUIT BREAKERS	CBI AS PER BKR TABLE					
FLUSH	LOCKABLE DOORS	ELECTRO GALVANIZED	GENERAL SECTION	REAR	GEN FDR SECTION		SUB BUSBAR FAULT LEVEL	N/A	SURGE ARRESTERS	CBI QKL1-(13)D - 275V 20/40kA SANS IEC 61643-1					
PEDESTAL MOUNTED	FRONT ACCESS	STAINLESS STEEL	UPS SECTION	SIDE	EMERGENCY SECTION		CONTROL VOLTAGE	N/A	CONTACTORS	N/A					
KIOSK	REAR ACCESS	3CR12 1.6mm	TABULAR CONSTRUCTION	NEUTRAL/EARTH	UPS SECTION		FREQUENCY	50Hz	CONTROL RELAYS	N/A					
ARCHITRAVE	REMOVABLE GLAND PLATES	FIBRE GLASS	METERING/INDICATION	FULL NEUTRAL	SCREEN SECTION	WHITE	SURGE ARRESTOR RATING	I _{max} (8/20ms) 40kA or (4/20ms) 65kA	TERMINALS						
OVER TRENCH	DOOR INTERLOCK	IP65	CONTROL TRANSFORMER	HALF NEUTRAL	INCOMER SECTION	WHITE	PWR FACTOR CORRECTION	N/A	INDICATING LAMPS						
SURFACE	DOOR PER SECTION		LOCAL SECTION (NORMAL)	EARTH BAR	GENERAL SECTION	WHITE	TERMINAL BLOCKS	N/A	BYPASS SWITCH						
			BUILDING SECTION	EARTH STUD			FUSES & HOLDERS								

CONSULTING ENGINEER

CLIENT

CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

NOTES

- MANUFACTURING OF DISTRIBUTION BOARD**
 - MANUFACTURERS MUST BE STIPULATED DURING TENDER BY TENDERER AND APPROVED BY CONSULTING ENGINEER BEFORE APPOINTMENT OF MANUFACTURER.
 - IN THE EVENT THAT INFORMATION/SPECIFICATION IS INADEQUATE OR QUERIED, THE CONSULTING ENGINEER MUST BE CONTACTED FOR A REVISION OR APPROVAL OF CHANGE PRIOR TO COMMENCEMENT OF MANUFACTURE.
 - SHOP DRAWINGS AND EQUIPMENT OFFERED MUST BE APPROVED BY CONSULTING ENGINEER BEFORE MANUFACTURING COMMENCES.
- MOUNTING**
 - SDB's MUST BE MOUNTED FLAT AGAINST THE BACK WALL OF THE SCREEN ENCLOSURE
 - USE CABSTRUT OR SIMILAR TO ENSURE AT LEAST A 40mm GAP BETWEEN BOARD BACK AND WALL.
 - USE ONLY MARINE GRADE STAINLESS STEEL BOLTS, NUTS & WASHERS
 - HARDWARE**
 - MINIMUM SIZE OF BOLTS - 10mmØ (M10)
 - U-BOLTS OR SIMILAR
 - SPACERS - CABSTRUT P1000 OR SIMILAR VERTICALLY MOUNTED AGAINST ENCLOSURE WALL

DRAWING SET KEY

01	SYMBOLS, LEGENDS & NOTES
02	POWER & LIGHTING LAYOUT - PLAN VIEW
03	POWER & LIGHTING LAYOUT - SECTION THROUGH SCREEN
04	FIRE DETECTION LAYOUT - PLAN VIEW
05	FIRE DETECTION LAYOUT - SECTION THROUGH SCREEN
06	SDB-SCREEN SLD

SHEET NO. REFERENCE DWG. eim.2024.28.30

DESIGN APP: K VELDSMAN
Pr Eng 880465
DATE: 12/12/2024

SIGNATURE

T	TENDER	AH	JV	KV	12/12/2024	N/A
REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	ESKOM REF
AUTH:	CAPE TOWN DHL STADIUM PROPOSED NEW OUTDOOR VIDEO DISPLAY SCREENS					
DATE:	12/12/2024					
CHKD:	SDB-SCREEN SLD					
DATE:	12/12/2024					
DRAWN:	eim.2024.28.30					
DATE:	12/12/2024					
SCALE	N/A		SET	SHEET		REVISION
THIS DRAWING IS THE PROPERTY OF EIMAC(PTY) LTD			06		06	T