

132kV YARD MAIN AND EQUIPMENT SCHEDULE:				
MARK	DESCRIPTION	DRG No	No OFF	REMARKS
BS1-4	TUBE BUSBAR SUPPORT	2-ET/15635	4	
IS1-1	132kV IS 2500A 25A	2-ET/15634	4	BUSBAR ISOLATOR
IS1-2	132kV IS 2500A 25A WITH SA	2-ET/15631	2	FEEDER ISOLATOR
IS1-7	132kV IS 2500A 25A	2-ET/15637	3	BUS SECTION ISOLATOR
CB1-4	132kV CB 2500A 315A	2-ET/15633	4	
CT1-4	132kV CT 2500A 25A	2-ET/15632	12	
VT1-2	132kV VT	2-ET/15636	6	
FS1-2	132kV PI - TERMINAL SUPPORT 6m	2-ET/15650	12	
TL1,2	132/22kV 200VA TRANSFORMER	2-ET/15637	2	
LM1-7	21m LIGHTING MAST	0-07/37145/2	7	

22kV YARD MAIN AND EQUIPMENT SCHEDULE:				
MARK	DESCRIPTION	DRG No	No OFF	REMARKS
RC1-4	ROAD CROSSING	2-ET/15634	4	
MECR11-2	MEC/NEC/AIR TRANSFORMER	2-ET/15634	2	
KB1-2	KIOSK BAR 22kV 1250A 20A	2-ET/15634	2	
IS100-102	ISOLATOR 22kV 2500A 25A	2-ET/15634	2	
VT100	102 VT 11kV/100V 100/500A	2-ET/15634	2	
IS103-104	ISOLATOR 22kV 2500A 25A	2-ET/15634	2	
PI1	POST ISOLATOR SUPPORT	2-ET/15634	1	
BS1-8	WHITE LIMB 22kV 400A 12A	2-ET/15634	8	
KB3-10	KIOSK BAR WITH SA	2-ET/15634	8	
AL1-8	WHITE LIMB 22kV 400A 12A	2-ET/15634	8	
BP1-8	BY PASS ISOLATOR	2-ET/15634-2	8	
BS1	BUS BAR	2-ET/15634-3	2	


- NOTES:
- ALL WORK TO BE DONE IN ACCORDANCE WITH SABS 1200 LATEST REVISION.
 - ALL LEVELS TO BE SET OUT FROM SETTING OUT BEACON INDICATED ON SHEET 2 WITH @BM.
 - TOP OF EQUIPMENT FOUNDATIONS TO BE 50mm ABOVE TERRACE LEVEL; TOP OF TRFR PLINTH TO BE 100mm ABOVE TERRACE LEVEL, EXCEPT WHERE OTHERWISE SHOWN.
 - YARD TO HAVE A CLEAN, HARD, SOUND CRUSHED STONE OF A MIN 25mm NOMINAL SIZE, 100mm THICK LAYER. THIS SHOULD APPLY AFTER INSTALLATION OF ALL EQUIPMENT AND CABLES.
 - ALL FOUNDATION H D BOLTS TO BE ALIGNED FOR CASTING OF CONCRETE TO A TOLERANCE OF ±2mm. FOUNDATION TOLERANCE TO BE IN ACCORDANCE WITH SABS 1200 C.6 GRADE A.
 - DEPTH OF EQUIPMENT FOUNDATIONS TO BE NOT LESS THAN SHOWN ON DETAIL DRAWING AND NOT LESS THAN 300mm INTO NATURAL GROUND.
 - ALL TOP EDGES OF CONCRETE ABOVE G.L. TO HAVE 25mm CHAMFER AT 45°.
 - ALL FOUNDATIONS TO HAVE 25mm GROUT UNDER BASEPLATES ONLY, GROUT MIX 2:1. ALL HD BOLTS ARE SUPPLIED WITH 2 NUTS AND 2 WASHERS. GROUT MUST BE A FEATHERED FINISH TO ALLOW WATER TO RUN FREE FROM THE BASE PLATE.

TRANSFORMER PLINTH NOTES:

- EXCAVATION FLOOR TO BE WELL COMPACTED BEFORE CONCRETE IS CASTED. IF SOIL IS NOT COMPACTABLE, COMPACTABLE MATERIAL HAVE TO BE IMPORTED AND COMPACTED. EXCAVATION FLOOR TO BE STABILISED WITH HB SOLUTION MIXTURE IF NECESSARY.
- WELD MESH REF 3H TO BE USED AS SHOWN, WITH MIN 50mm COVER ON TOP AND BOTTOM. PLINTH TO HAVE A LAYER OF WELD MESH REF 3H AT 450mm FROM BOTTOM.
- 20MPa CONCRETE TO BE USED. CONCRETE TO BE WELL VIBRATED AND WOOD FLOOR FINISHED.
- SEE DRAWING NO. 0.54/1390 FOR CIVIL WORK AND EXPANSION JOINTS.

2-ET/15632/1	OIL HOLDING DRAIN
2-ET/15632/2	TRANSFORMER PLINTH
2-ET/15632/3	CONTROL ROOM
2-ET/15632/4	SECTIONS/CLAMP LAYOUT
2-ET/15632/5	GENERAL ARRANGEMENT
2-ET/15632/6	LEVEL AND DRAINAGE LAYOUT
2-ET/15632/7	SITE PLAN
2-ET/15632/8	STATION ELECTRIC DIAGRAM
DRG NO.	REFERENCE DRAWING(S)

REV	REVISION DESCRIPTION	BY	CHKD	CHKD	DATE	PROJECT NO.



SCALE 1:200
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Esikom

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ZONNEBLOEM MINE

132/22kV SUBSTATION
GENERAL ARRANGEMENT

2-ET/15638

SET	SHEET	REVISION
	05	0

