

## NOTE

ALL LEVELS & DIMENSIONS TO BE VERIFIED ON SITE BEFORE ANY WORK COMMENCES. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER

GUARD RAILS ARE TO BE PLACED ACROSS PERMANENT ATTENUATION DAMS" WALLS, ON BOTH SIDES OF WALLS AT DAMS 3 AND 5 AND ON UPSTREAM FACE ONLY ON DAM 2.

TOTAL LENGTH OF GAURD RAILS TO BE 1240m

SPECIFICATIONS:

1. BOLT: HIGH TENSILE STEEL
2. WASHERS: 3mm THICK
3. SPACER BLOCK: PINE OR GUM, PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR 539.

GALVANISING:

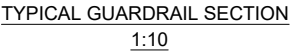
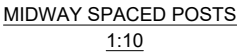
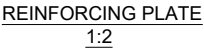
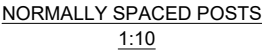
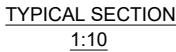
4. GUARDRAILS (SANS 121/ ISO 1461) TYPE A1
5. BOLTS AND WASHERS (SANS 121 / ISO 1461 TYPE C1



TIMBER POSTS:

6. POST TO COMPLY WITH SANS 457 AND SHALL CARRY THE SANS MARK.

**NOTES ON INSTALLATION:**

7. THE HOLES FOR TIMBER POSTS SHALL BE OF SUFFICIENT SIZE TO PERMIT PROPER SETTING OF POSTS AND ALLOW SUFFICIENT VOLUME FOR BACKFILLING.
8. 700mm SHALL BE IMBEDDED IN THE GROUND, AT LEAST 700mm FROM THE EDGE OF THE FILL SHOULDER.
9. BARRIERS ARE TO BE PLACED BOTH SIDES OF DAM WALLS WHERE HEIGHT EXCEEDS 2m ABOVE NATURAL GROUND LEAVING A MINIMUM 3,2m CLEAR PATH BETWEEN RAILS.
10. HOLES TO BE BACKFILLED WITH SOIL/CETE 12:1 SOIL:CEMENT MIXTURE AT OMC IN LAYERS NOT EXCEEDING 100mm AND TAMPED TO EXCLUDE VOIDS.



BOYR ADV SCOPE LEGEND				KKS	PBS:	00UEQ01	D.O. REV	DATE	NODE REFERENCE :		REV BY	CHGD BY	AUTH BY	KKS APP	REFERENCE DWG. NO.	REFERENCE DRAWINGS
NAME		LABEL	ASH DISPOSAL FACILITY	NOTES: COORDINATE SYSTEM : L029 WGS-84		SIGN: K.P. MATULOVICH Pr. Eng. 20180729 Date: 30-11-2023	DWG REGISTERED	11	23	MM	AUTOMATICALLY REGENERATED BY		DATE		KUSILE POWER STATION ASH DISPOSAL FACILITY ATTENUATION DAMS 2, 3, AND 5 GUARD RAIL DETAILS	
			DESIGN APPROVED				11	23	KPM	AUTOMATICALLY REGENERATED		DATE				
			KKS APP													
			AUTH BY							ESKOM HOLDINGS LTD.						
			CHGD BY				11	23	BLU	REG. No. 2003/000527/06						
							DRAWN BY	11	23	MM			366-513547		SHEET	REV
							SCALE	1:50							1	0