



1. GABION BOXES AND RENO MATTRESSES (MACCAFERRI SA OR SIMILAR APPROVED) DIMENSIONS, SPECIFICATIONS AND ASSEMBLY DETAILS AS PER MANUFACTURERS REQUIREMENTS.
2. FOR GRASS, STONE PITCHING, CONCRETE AND STILLING BASIN EROSION PROTECTIVE MEASURES REFER TO CHAPTER 7 OF THE ROAD DRAINAGE MANUAL, 5th EDITION, 2006.

GUIDELINE FLOW VELOCITY (m/s)	PROTECTION MEASURE*
$V < 1.5$	FIELD GRASS
$1.5 < V < 3.5$	GRASS SODS
$3.5 < V < 6.5$	GABION MATTRESS (300mm)
$6.58 < V < 8$	GABIONS (500mm MIN)

		CONSTRUCTION RECORD		 <p>Q&A CONSULTING</p> <p>Regus Business Centre Ground Floor, Unit 10 Park Building 082 Vandenberg Lane, Nobel Street, Vandenbergfontein, 5301</p> <p>P.O. Box 26268 Langenhovenpark 1184 5330</p> <p>E-mail: info@qaconconsulting.co.za Website: www.qaconconsulting.co.za</p> <p>Tel: 051 101 2312</p> <p>Registration No: 2017/026970/07</p>	DESIGNED BY		CONSULTANT APPROVAL		HEAD OFFICE		 <p>SANRAL</p> <p>BUILDING SOUTH AFRICA THROUGH BETTER ROADS</p>	WESTERN REGION		ACCEPTANCE		PROJECT DESCRIPTION				PROJECT NUMBER		N.010-050-2020/3									
		WORKS CONTRACT ENGINEER			NAME		NAME		43 Tambotie Avenue Val de Grace Pretoria 0184 7530			1 Havenga Street Oakdale Bellville 7530		THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING		THE PERIODIC MAINTENANCE (REPAIR AND RESEAL) OF NATIONAL ROUTE 10 SECTION 5 FROM LUIPERTSKOP (km 40.00) TO HANOVER (km 62.17)				DRAWING NUMBER		DRAWING km DISTANCE									
		Name : Gert van Niekirk Prof. Reg. No. : 790095 Date : 2022/10/31			CHECKED BY		Name : Gert van Niekirk Prof. Reg. No. : 790095 Date : 2022/10/31		PO Box 415 Pretoria 0001 South Africa			Private Bag X19 Bellville 7535								DRAWING TYPE		GEOTECHNICAL - SLOPE PRIOR									
		SANRAL PROJECT MANAGER			NAME		NAME		Tel: (012) 844 8000			Tel: (021) 957 4600		Date		Date				BRIDGE/STRUCTURE No.		NA									
V1		30/09/2022		ORIGINAL VERSION		Name : Imelda Julius Date : 2022/10/31		Prof. Reg. No. : 790095		DRAWN BY		Leoni Coffee		For CEO: SA NATIONAL ROADS AGENCY SOC LTD.		SCALE : AS SHOWN				SHEET 3 OF 3				CONSULTANT DRAWING No.		FA		PM05-T-017		VER	
No.		DATE		REVISION		CONSULT. ENG																									