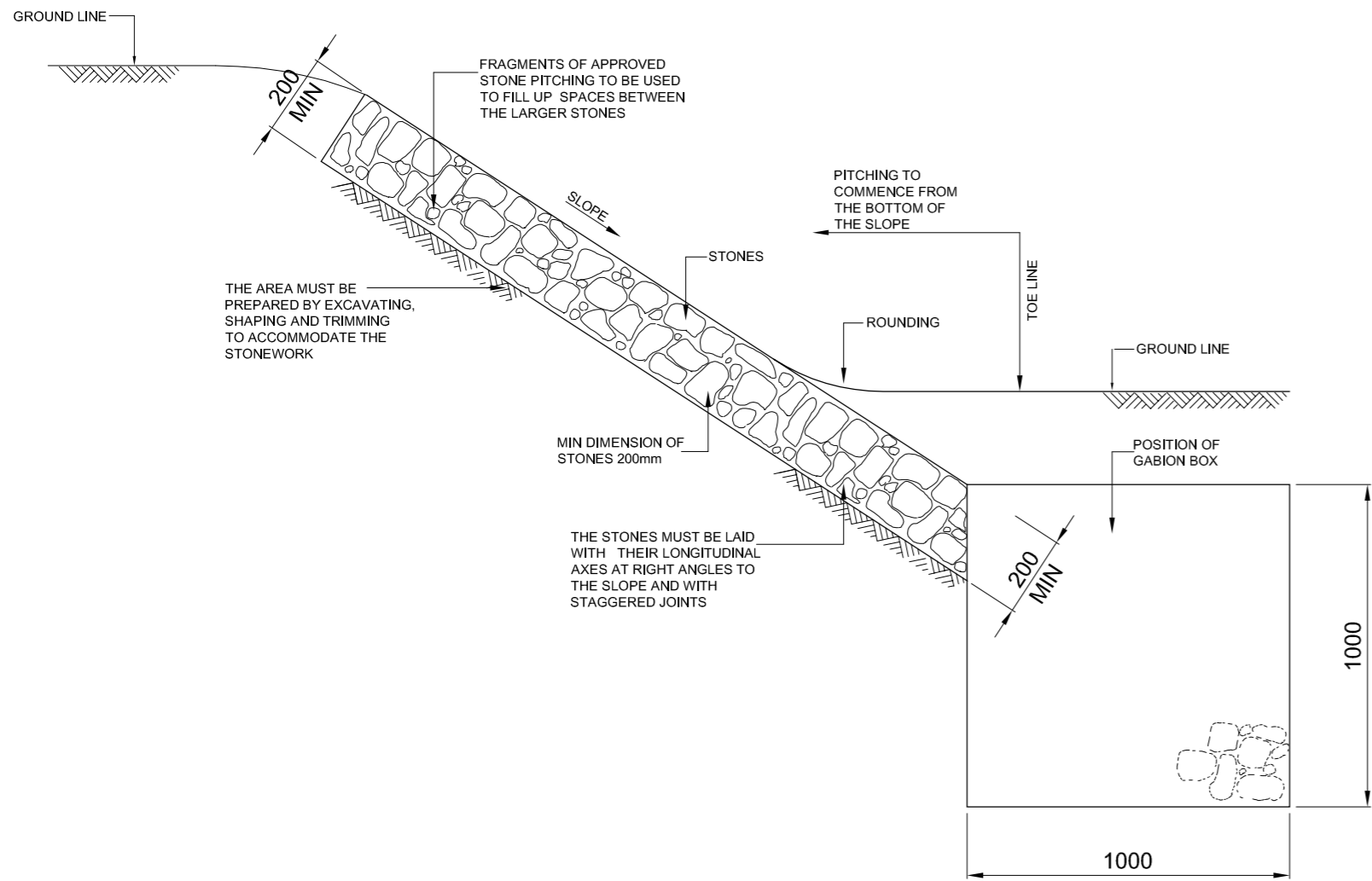
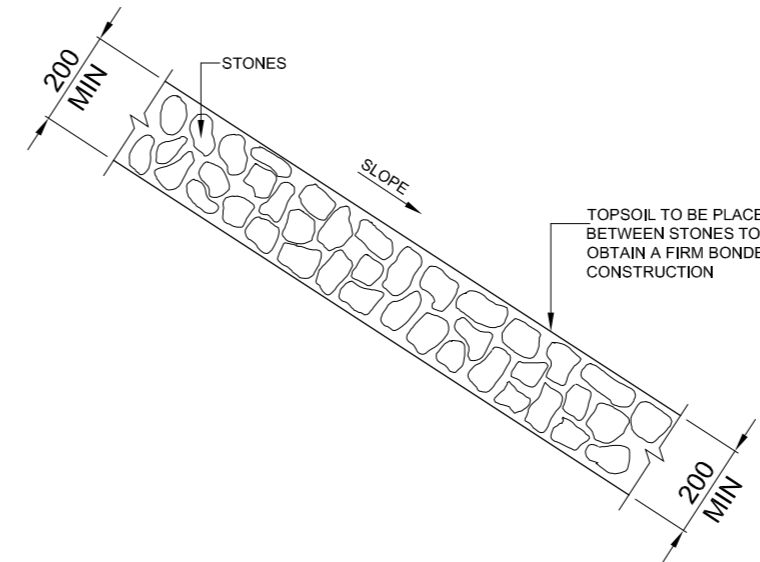


DRAINAGE TYPICALS: EROSION CONTROL - STONE PITCHING AND GABONS



**PLAIN STONE PITCHING
METHOD 1**
SCALE: 1 : 20

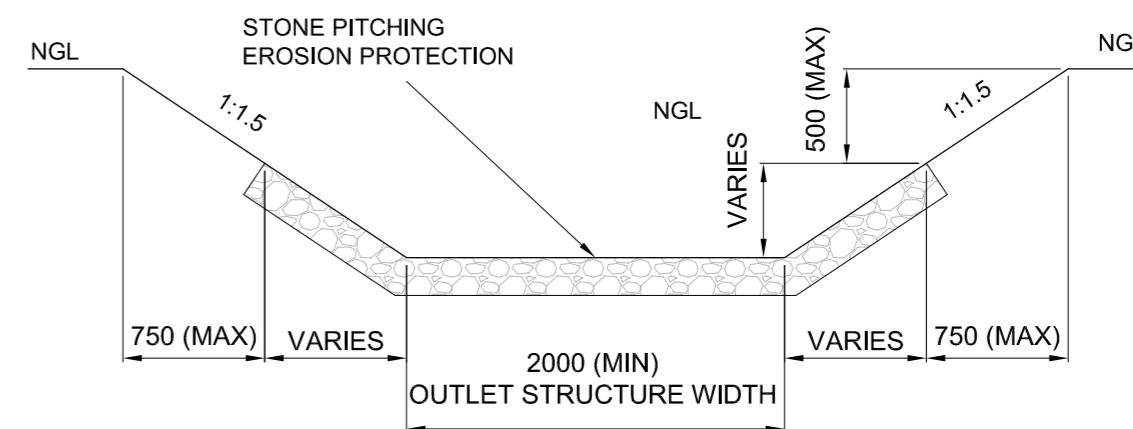


**PLAIN STONE PITCHING
METHOD 2**
SCALE: 1 : 20

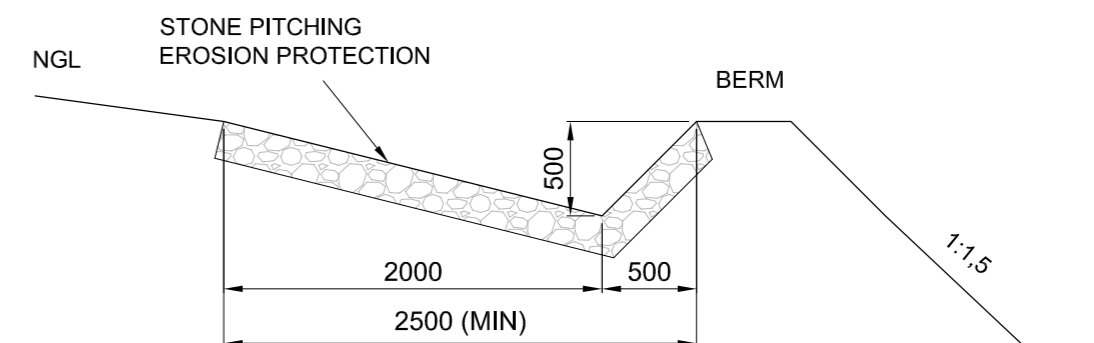
NOTES FOR METHOD 2:

THE TECHNIQUE AND REQUIREMENTS LAID DOWN IN METHOD 1 SHALL APPLY WITH THE FOLLOWING EXCEPTIONS:

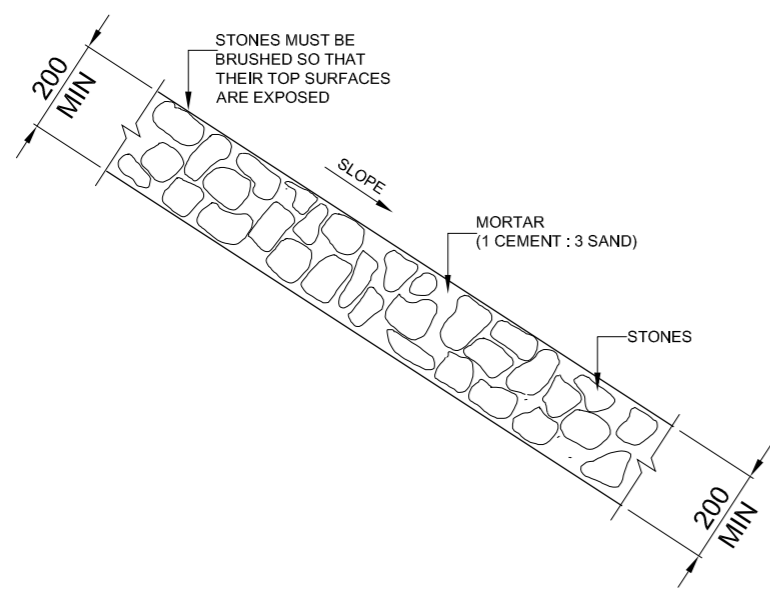
1. NO SMALL STONES SHALL BE USED TO FILL THE SPACES BETWEEN THE LARGER STONES.
2. TOPSOIL SHALL BE INTRODUCED BETWEEN INDIVIDUAL STONES SIMULTANEOUSLY WITH PLACING OF STONES.
3. ROOTED GRASS OR GRASS TUFTS SHALL THEN BE PLACED IN THE TOPSOIL.



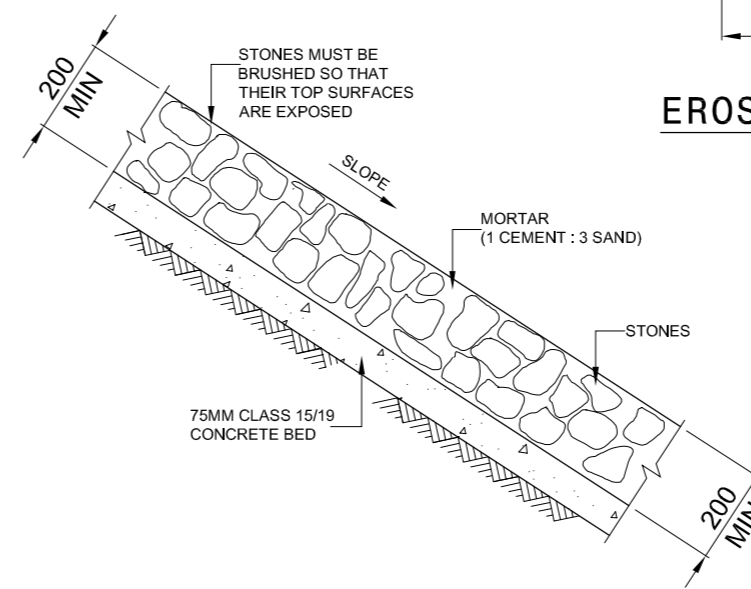
**UNLINED DRAIN OR OUTLET TRENCH
EROSION PROTECTION**
SCALE: 1 : 20



EROSION PROTECTION OF BERMS
SCALE: 1 : 20



GROUTED STONE PITCHING
SCALE: 1 : 20



**GROUTED STONE PITCHING
ON A CONCRETE BED**
SCALE: 1 : 20

NOTE:
EROSION PROTECTION IF INSTRUCTED BY THE ENGINEER

NOTES FOR GROUTED STONE PITCHING:

THE TECHNIQUE AND REQUIREMENTS LAID DOWN IN METHOD 1 SHALL APPLY WITH THE FOLLOWING EXCEPTION:

1. THE SPACES BETWEEN THE STONES SHALL BE FILLED WITH MORTAR.

CONSTRUCTION RECORD (AS-BUILT)			
WORKS CONTRACT ENGINEERS			
Name :	G. LOUBSER		
Prof. Reg. No. :	980512		
Date :	APRIL 2016		
SANRAL PROJECT MANAGER			
Name :	G. LOUBSER		
Date :			
No.	DATE	REVISION	CONSULT. ENG.
V1	07-2019	ORIGINAL VERSION	G. LOUBSER

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CONSULTANT APPROVAL	
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Date	APRIL 2016

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 BUILDING SOUTH AFRICA
 THROUGH BETTER ROADS

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ACCEPTANCE
 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
 for the SA NATIONAL ROADS AGENCY SOC. LTD.
 Date:

PROJECT DESCRIPTION	
MAPUTO DEVELOPMENT CORRIDOR (MDC) PRETORIA TO LEBOMBO BORDER POST ROUTINE ROAD MAINTENANCE	
DRAWING DESCRIPTION	
DRAINAGE TYPICALS: EROSION CONTROL - STONE PITCHING AND GABONS	
SCALE: AS SHOWN (A0)	
SHEET 1 OF 1	

PROJECT NUMBER		TRAC/MAINT-2019-01	
DRAWING LOCATION DATA		START	END
ROUTE		PRETORIA	LEBOMBO BORDER
SECTION		ROADS - TYPICAL DETAILS	
DRAWING TYPE		ROADS - TYPICAL DETAILS	
BRIDGE/STRUCTURE No.			
CONSULTANT DRAWING No.		SNA-TP1915-06	
SANRAL DOCUMENT #			
		VER	V1