DESCRIPTION OF LAYER WORKS FOR: GRAVEL ROADS

LAYER No.	LAYER THICKNESS (mm)	LAYER	TRH 14 CLASSI-FICATION	DESCRIPTION	COMPACTION
1	100	BASE		GRAVEL WEARING COURSE (RURAL AND URBAN ROADS AS PER COTO TABLE A4.1.5-11, REQUIREMENTS FOR GRAVEL WEARING COURSE MATERIAL OTHER THAN CALCRETE)	95% OF MAXIMUM DRY DENSITY CBR >= 15% AT 95% PI ON THE P0.425 FRACTION 6-12
2		*FILL	G7	NATURAL IMPORTED GRAVEL	93% OF MAXIMUM DRY DENSITY (CBR >= 15% AT 93%)
3	150	ROADBED	G9	RIP AND RE-COMPACT IN-SITU G9 OR BETTER ROADBED	93% OF MAXIMUM DRY DENSITY (CBR >= 7% AT 93%)

* FILL MATERIAL MAY BE REQUIRED TO LEVEL THE ROAD SURFACE OR TO LIFT THE FINAL ROAD SURFACE FOR DRAINAGE PURPOSES. FILL LAYERS SHALL BE CONSTRUCTED IN LAYERS NO GREATER THAN 200mm AND NO LESS THAN 100mm THICK ROADBED

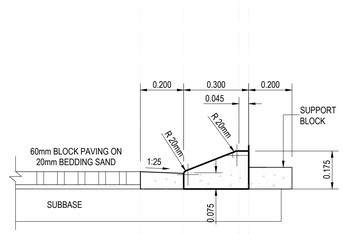
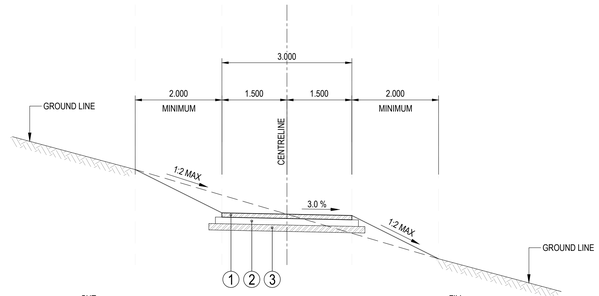


FIGURE 8b KERB & CHANNEL COMBINATION: 60mm BLOCK PAVING
SCALE 1 : 10

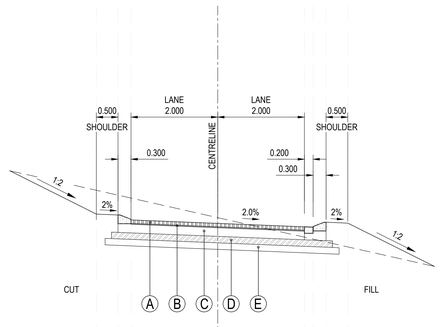


TYPICAL CROSS SECTION
3m GRAVEL ACCESS ROAD
SCALE 1 : 50

DESCRIPTION OF LAYER WORKS FOR: 60mm BLOCK PAVING ROADS

LAYER No.	LAYER THICKNESS (mm)	LAYER	TRH 14 CLASSI-FICATION	DESCRIPTION	COMPACTION
A	60mm BLOCK PAVING (CLASS 30/2.0 SANS1058, TYPE S-A, LAID IN HERRINGBONE PATTERN)				
B	20mm BEDDING SAND (BEDDING AND JOINTING SAND TO BE IN ACCORDANCE TO A6.2.5 MATERIALS OF THE STANDARD SPECIFICATION)				
C	150	SUB-BASE	C4	STABILIZED NATURAL GRAVEL	95% OF MAXIMUM DRY DENSITY, UCS MIN. 0.75MPa @ 100%, UCS MAX. 3.0MPa @ 100% & ITS MIN. 200kPa @ 100%, ITS MIN. 450kPa @ 100%
D		**FILL	G7	NATURAL GRAVEL	93% OF MAXIMUM DRY DENSITY (CBR >= 15% AT 93%)
E	150	ROADBED	G9	RIP AND RE-COMPACT IN-SITU G9 OR BETTER ROADBED	93% OF MAXIMUM DRY DENSITY (CBR >= 7% AT 93%)

** FILL MATERIAL MAY BE REQUIRED TO LEVEL THE ROAD SURFACE OR TO LIFT THE FINAL ROAD SURFACE FOR DRAINAGE PURPOSES. FILL LAYERS SHALL BE CONSTRUCTED IN LAYERS NO GREATER THAN 200mm AND NO LESS THAN 100mm THICK



TYPICAL CROSS SECTION
4m BLOCK PAVING ACCESS ROADS
SCALE 1 : 50

DESCRIPTION OF LAYER WORKS FOR: 80mm BLOCK PAVING ROADS

LAYER No.	LAYER THICKNESS (mm)	LAYER	TRH 14 CLASSI-FICATION	DESCRIPTION	COMPACTION
F	80mm BLOCK PAVING (CLASS 30/2.0 SANS1058, TYPE S-A, LAID IN HERRINGBONE PATTERN)				
B	20mm BEDDING SAND (BEDDING AND JOINTING SAND TO BE IN ACCORDANCE TO A6.2.5 MATERIALS OF THE STANDARD SPECIFICATION)				
C	150	SUB-BASE	C4	STABILIZED NATURAL GRAVEL	95% OF MAXIMUM DRY DENSITY, UCS MIN. 0.75MPa @ 100%, UCS MAX. 3.0MPa @ 100% & ITS MIN. 200kPa @ 100%, ITS MIN. 450kPa @ 100%
D		***FILL	G7	NATURAL GRAVEL	93% OF MAXIMUM DRY DENSITY CBR >= 15% AT 93%
E	150	ROADBED	G9	RIP AND RE-COMPACT IN-SITU G9 OR BETTER ROADBED	93% OF MAXIMUM DRY DENSITY (CBR >= 7% AT 93%)

*** FILL MATERIAL MAY BE REQUIRED TO LEVEL THE ROAD SURFACE OR TO LIFT THE FINAL ROAD SURFACE FOR DRAINAGE PURPOSES. FILL LAYERS SHALL BE CONSTRUCTED IN LAYERS NO GREATER THAN 200mm AND NO LESS THAN 100mm THICK

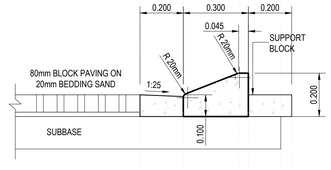
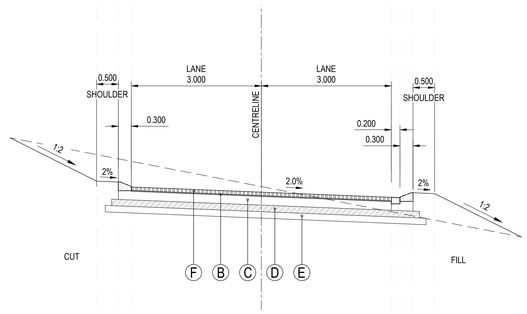


FIGURE 8c KERB & CHANNEL COMBINATION: 80mm BLOCK PAVING
SCALE 1 : 10



TYPICAL CROSS SECTION
6m BLOCK PAVING ACCESS ROADS
SCALE 1 : 50

FOR TENDER ONLY

No.	DATE	REVISION	CONSULT. ENG.
T01	29/10/2024	ISSUED FOR RETENDER	
T00	28/02/2022	ISSUE FOR TENDER	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No. 1998/030664/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
0081

Private Bag X17
Lynnwood Ridge
0040

Tel: (012) 426 6200

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
FOR TRAINING AND CONSTRUCTION MANAGEMENT SERVICES FOR A COMMUNITY DEVELOPMENT PROJECT TO UPGRADE ACCESS ROADS IN AND NEAR KWAMHLANGA TOWNSHIP – MPUMALANGA PROVINCE

DRAWING DESCRIPTION
ACCESS ROADS
TYPICAL CROSS SECTIONS AND PAVEMENT DESIGN

SCALE : AS SHOWN | SHEET 1 OF 1

PROJECT NUMBER	C.002-053-2023/1	
DRAWING LOCATION DATA	START	END
ROUTE	-	-
SECTION	-	-
DRAWING km DISTANCE	-	-
DRAWING TYPE	ROADS - PAVEMENT CONTROL	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	60487450-4-1-C-BA-101-T-01	VER
SANRAL DOCUMENT #		T01