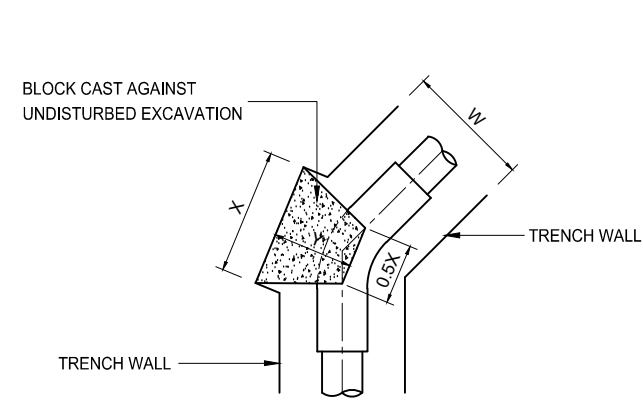
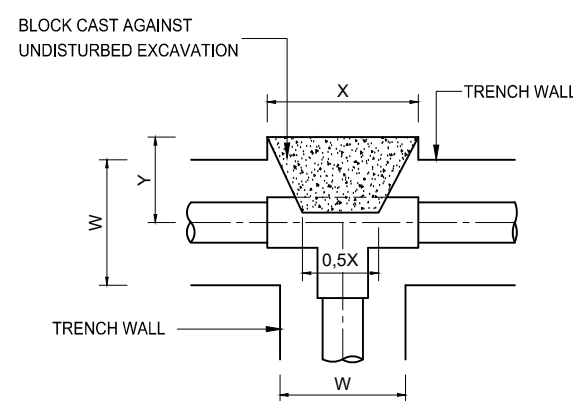




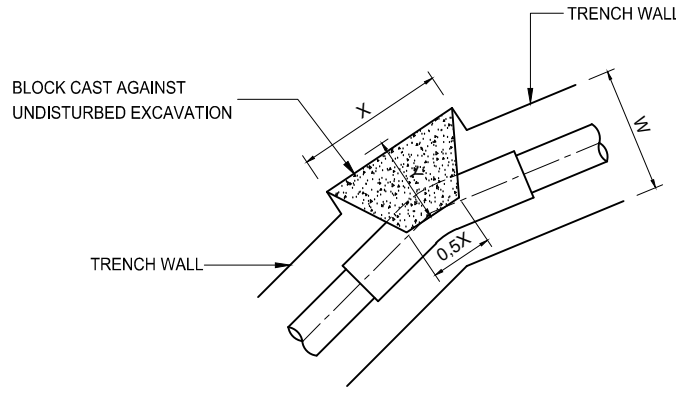
THRUST BLOCK FOR 45° BEND

NOMINAL DIAMETER Ø (mm)	DIMENSIONS				
D (mm)	Z (mm)	X (mm)	Y (mm)	VOL (m³)	
300	1 400	700	2 000	1 000	1,400
250	1 300	650	1 600	800	0,800
200	1 200	600	1 200	600	0,430
150	1 000	500	1 000	500	0,250
100	1 000	500	350	250	0,043
75	800	400	350	200	0,028



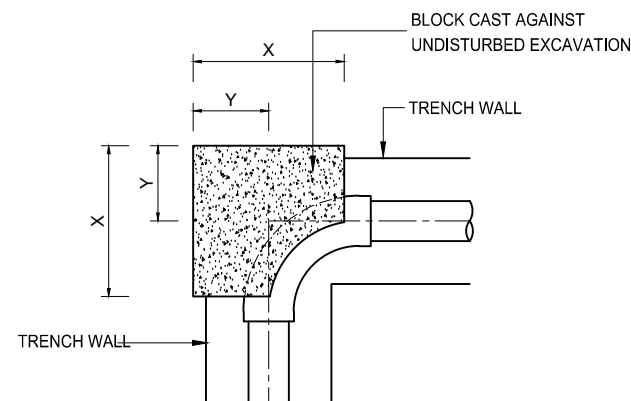
THRUST BLOCK FOR TEE

NOMINAL DIAMETER Ø (mm)	DIMENSIONS				
D (mm)	Z (mm)	X (mm)	Y (mm)	VOL (m³)	
300	1 400	700	2 700	1 300	2,550
250	1 300	650	2 150	1 100	1,500
200	1 200	600	1 600	800	0,770
150	1 000	500	1 300	650	0,420
100	1 000	500	500	300	0,075
75	800	400	450	300	0,054



THRUST BLOCK FOR 22,5° BEND

NOMINAL DIAMETER Ø (mm)	DIMENSIONS				
D (mm)	Z (mm)	X (mm)	Y (mm)	VOL (m³)	
300	1 400	700	1 000	500	0,350
250	1 300	650	760	400	0,200
200	1 200	600	600	400	0,150
150	1 000	500	500	300	0,075
100	1 000	400	300	200	0,024
75	800	300	300	200	0,018

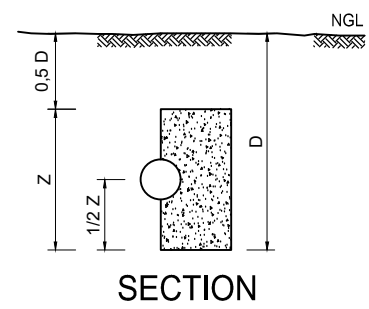


THRUST BLOCK FOR 90° BEND

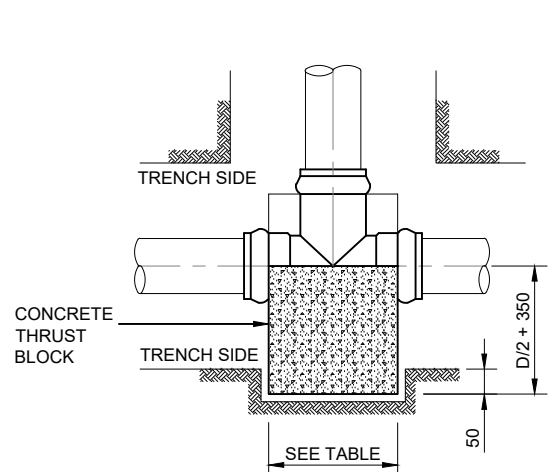
NOMINAL DIAMETER Ø (mm)	DIMENSIONS				
D (mm)	Z (mm)	X (mm)	Y (mm)	VOL (m³)	
300	1 400	700	2 700	1 400	5,00
250	1 300	650	2 150	1 100	3,00
200	1 200	600	1 600	800	1,54
150	1 000	500	1 300	700	0,80
100	1 000	500	500	300	0,12
75	800	400	450	300	0,08

NOTES:

1. THIS TABLE WAS CALCULATED FOR ANCHOR BLOCKS IN SANDY SOILS.
2. USE 10nPA CONCRETE.
3. HALF THE DEPTH OF THE ANCHOR BLOCK NEEDS TO BE BELOW THE PIPE AXIS.
4. KEEP THE CONCRETE AWAY FROM THE COUPLINGS & THE PIPE JOINTS.
5. ANCHOR BLOCKS FOR PIPE Ø LARGER THAN 300mm & HIGHER TEST PRESSURES THAN 16 BAR NEEDS TO BE DESIGNED BY THE ENGINEER.
6. ANCHOR BLOCKS AT PADDLE FLANGES NEEDS TO BE REINFORCED & DESIGNED BY THE ENGINEER.
7. IN CASES OF SOFT CLAY & SILTY SANDS, THE ANCHOR BLOCKS NEED TO BE DESIGNED BY THE ENGINEER.

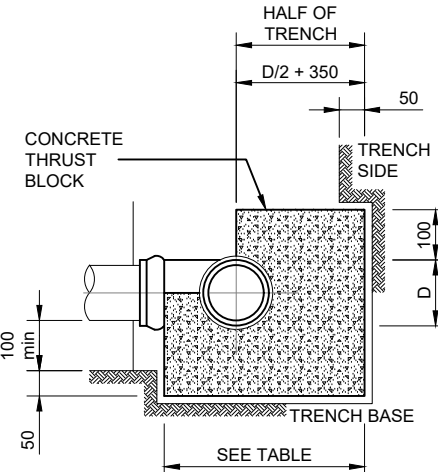


SECTION



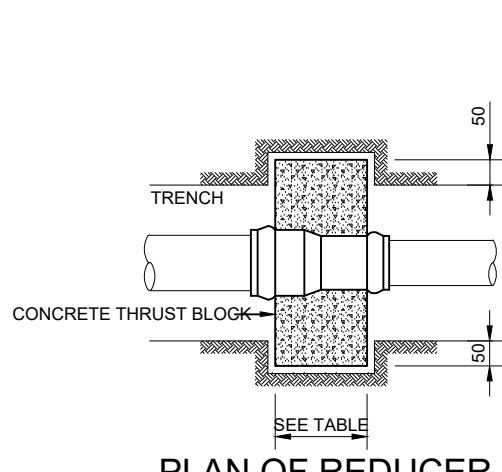
PLAN OF TEE

EXAMPLE SHOWS A 110 EQUAL TEE
SCALE 1 : 10



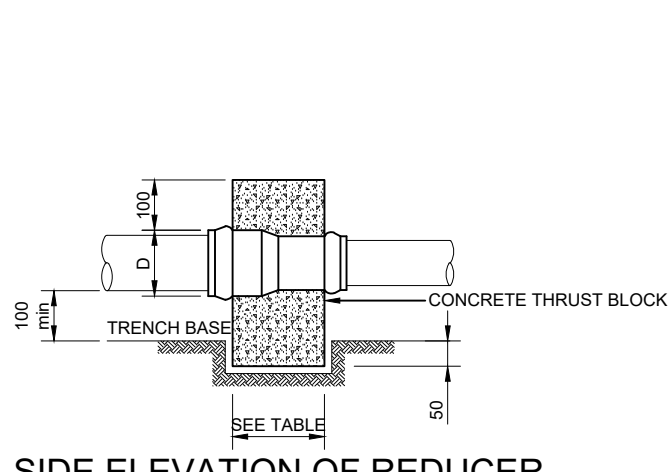
ELEVATION OF TEE

EXAMPLE SHOWS A 110 EQUAL TEE
SCALE 1 : 10



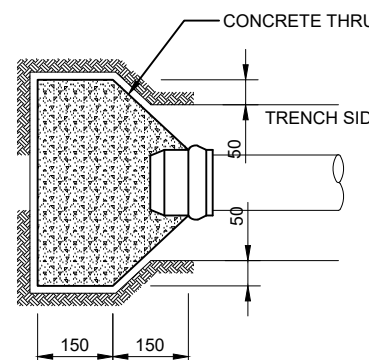
PLAN OF REDUCER

EXAMPLE SHOWS A 110 TO 50 REDUCER
SCALE 1 : 10



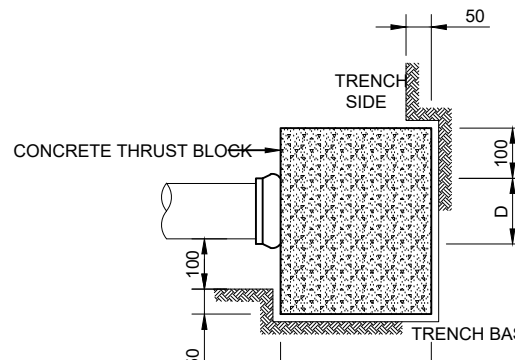
SIDE ELEVATION OF REDUCER

EXAMPLE SHOWS A 110 TO 90 REDUCER
SCALE 1 : 10



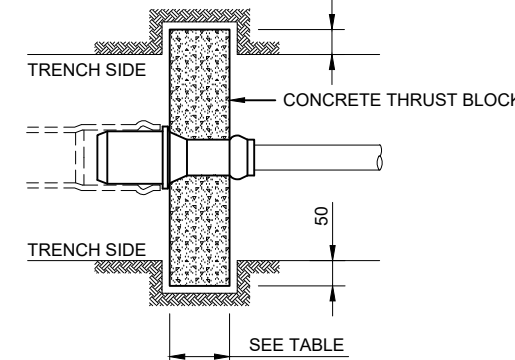
PLAN OF END CAP

EXAMPLE SHOWS A 110 END CAP
SCALE 1 : 10



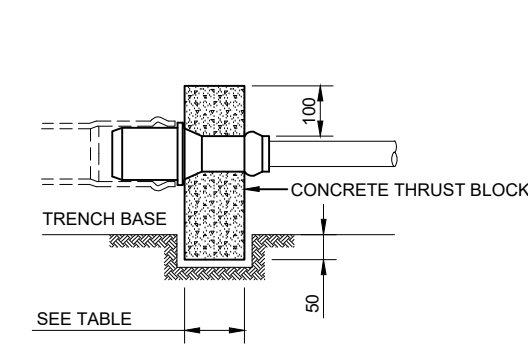
ELEVATION OF END CAP

EXAMPLE SHOWS A 110 END CAP
SCALE 1 : 10



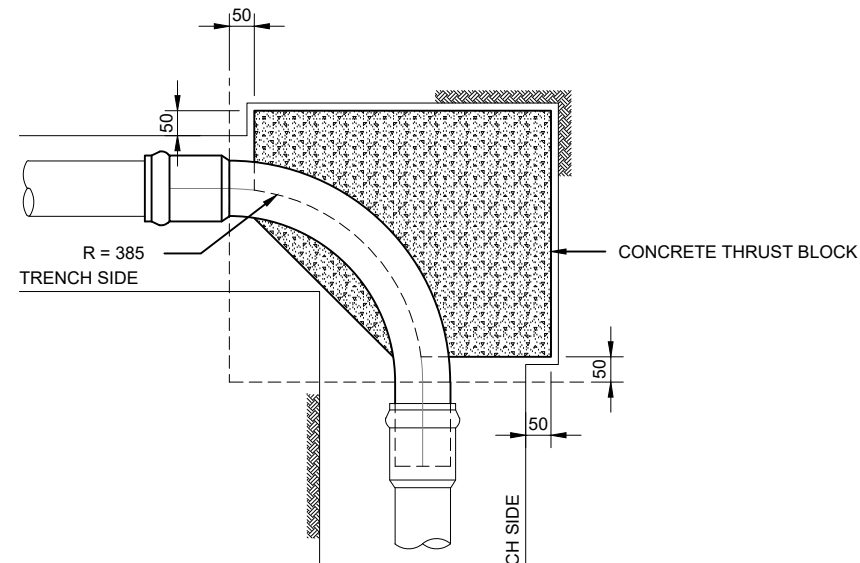
PLAN OF REDUCER BUSH

EXAMPLE SHOWS A 110 TO 50 REDUCER BUSH
SCALE 1 : 10



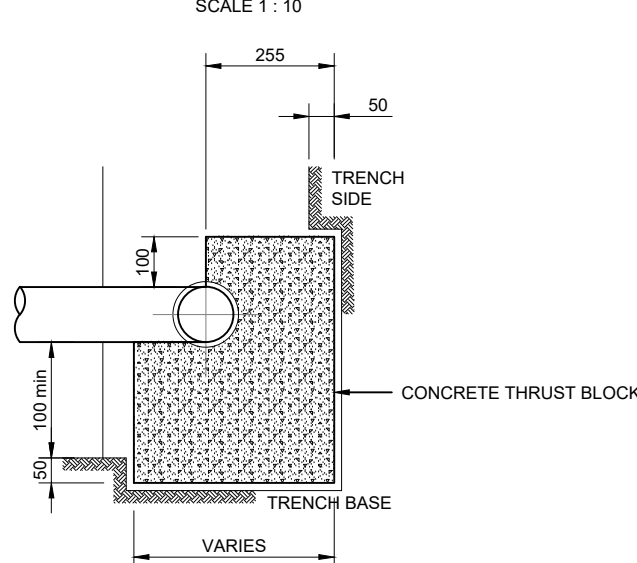
SIDE ELEVATION OF REDUCER BUSH

EXAMPLE SHOWS A 110 TO 50 REDUCER BUSH
SCALE 1 : 10



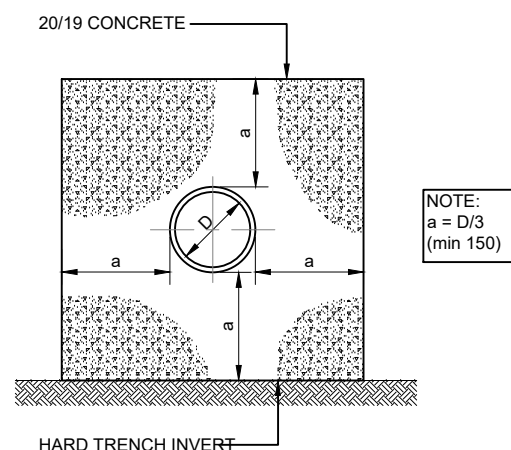
PLAN OF 90° BEND

EXAMPLE SHOWS A 110 90° BEND
SCALE 1 : 10



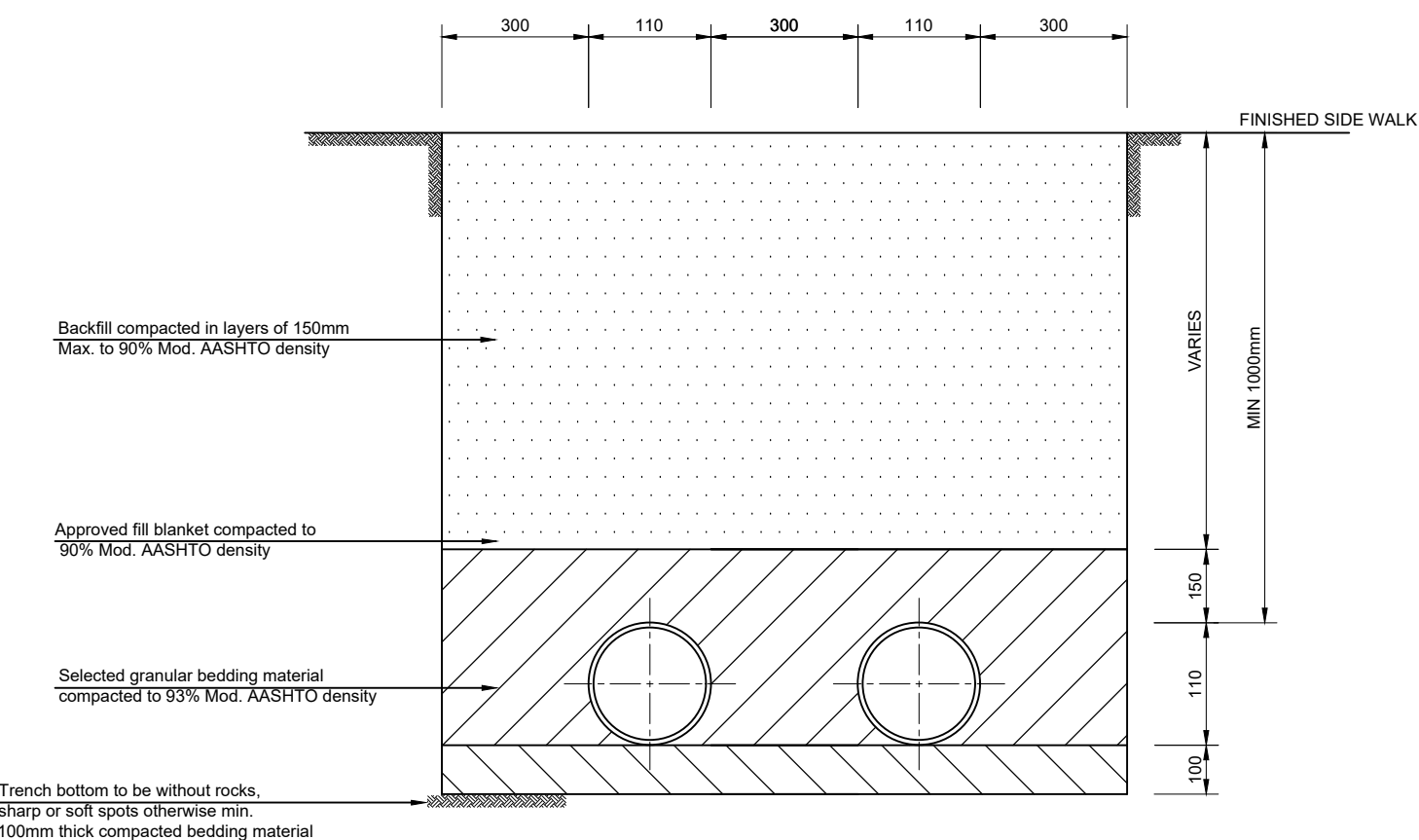
SIDE ELEVATION OF 90° BEND

EXAMPLE SHOWS A 110 90° BEND
SCALE 1 : 10

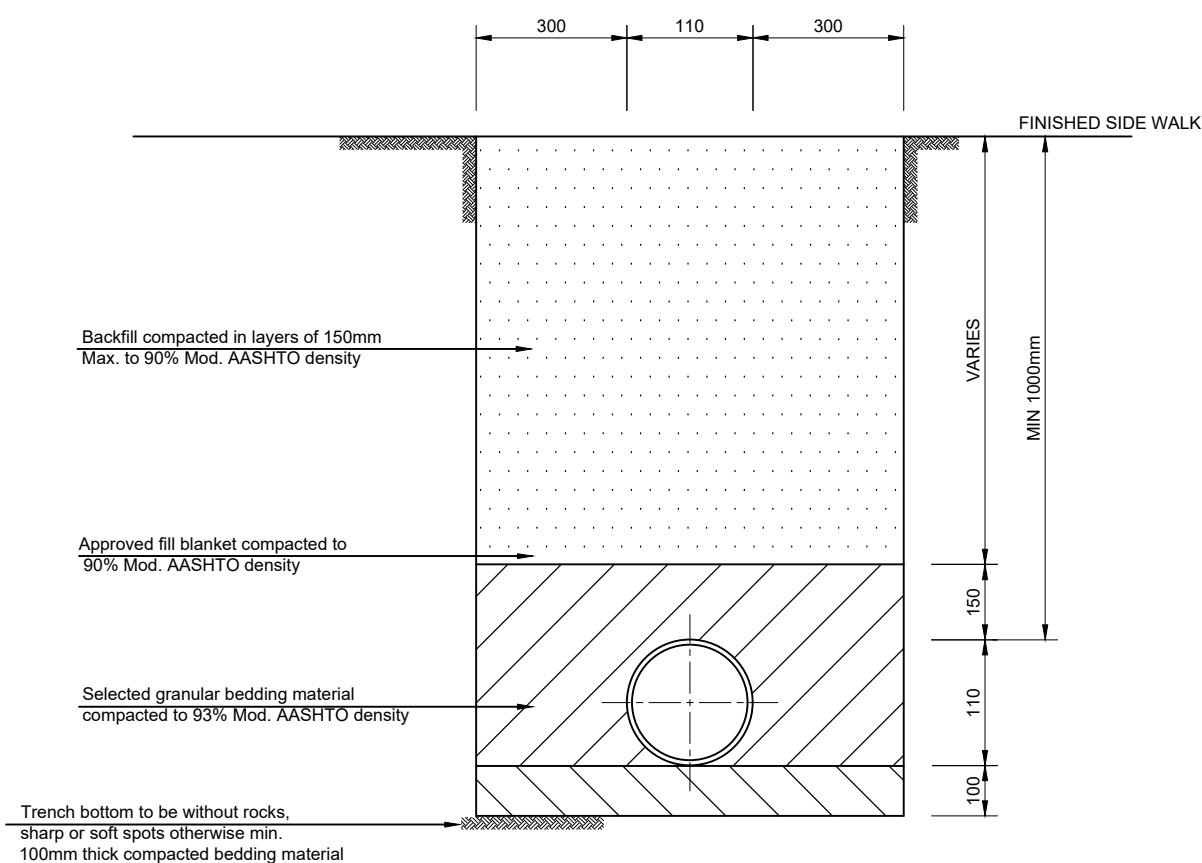


CONCRETE ENCASING DETAILS

NOT TO SCALE



TYPICAL DETAILS: BEDDING FLEXIBLE PIPES



TYPICAL DETAILS: BEDDING FLEXIBLE PIPES

ISSUED FOR TENDER

CURRENT DRAWING ISSUED TO:

CLIENT

CLIENT:



Pvt Bag X5049,
Kimberly, 8301,
South Africa

IK Nkoane Education House
156 Barkly Road
Homestead, Kimberly
8301

REV	DATE	BY	DESCRIPTION	CHK	APD
00	28-05-2028	LM	ISSUED FOR TENDER	N.Z	W.K

DRAWING STATUS:

DETAILED DESIGN



10 MORRIS STREET WEST
WOODMEAD, SANDTON, 2191, JOHANNESBURG
www.kairosengineers.co.za

Tel: 010 824 00060

CLIENT:

HOERSKOOL ADAMANTIA HIGH SCHOOL

ARCHITECT:

R.Kakono PrArch 48791029

PROJECT:

PROJECT: Rehabilitation and Construction of Additional Block Classrooms at Hoerskool Adamantia High School, in Kimberly Northern Cape

TITLE:

WATER ANCHOR BLOCKS DETAILS

STANDIERF No.: ERF ...

SCALE @ A1:	CHECKED:	APPROVED:
1:50	N.Z	W.K
DRAWN:	DESIGNED:	DATE:
LM	W.K	28/05/2028
PROJECT No:	DRAWING No:	REV:
K250022	K250022-CIV-003	00

© KAIROS CONSULTING ENGINEERS