

		NOTES AND SPECIFICATIONS
	HEAVY DUTY CONCRETE	GENERAL
		<ol> <li>MINIMUM REQUIREMENTS ARE INDICATED ON THE DRAWING. THE CONSULTANT / DESIGNER IS RESPONSIBLE AND LIABLE FOR FURTHER DETAILS AND TO ENSURE EFFECTIVE OPERATION AND MAINTENANCE OF THE INSTALLATION.</li> </ol>
	NGL	<ol> <li>2. THE SIGNATURE OR INITIALS ON THIS DRAWING OF COE OFFICIAL DOES NOT REMOVE ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT / DESIGNER.</li> <li>3. THE CONSULTANT / DESIGNER REMAINS RESPONSIBLE TO ENSURE THAT ALL THE</li> </ol>
	STEP IRONS	GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE WATER AND SANITATION DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH IN THE DESIGN.
	EXISTING OUTFALL SEWER	<ol> <li>ALL MATERIAL AND WORKWARSHI MOST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS STANDARD.</li> <li>FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.</li> <li>ALL DIMENSIONS TO BE CHECKED AND ADDROVED ON SITE.</li> </ol>
		<ul><li>APPROVED ON SITE.</li><li>7. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED).</li></ul>
		<ol> <li>BONOT SCALE FROM THESE DRAWINGS.</li> <li>CLASS OF CONCRETE UNLESS OTHERWISE SPECIFIED ON DRAWING DETAILS:</li> </ol>
		REINFORCED CLASS 30/19 THRUST BLOCKS CLASS 20/19
		BLINDING CLASS 15/19 FLOOR SCREED SAND : CEMENT = 3 : 1 10. PRE-CAST CONCRETE RINGS AND COVER
		SLABS TO COMPLY WITH SANS 1294. 11. JOINTS BETWEEN CONCRETE RINGS AND BETWEEN COVER SLABS AND BETWEEN
		RINGS AND FLOORS TO BE SEALED WITH BITUMEN SEALANT ( APPROVED BY THE DESIGNED)
		12. SEWERS INSTALLED WITHIN ROAD RESERVE BOUNDARIES MUST BE POSITIONED IN ACCORDANCE WITH THE APPLICABLE SERVICES LAYOUT DRAWING.
		PARTICULAR:
		1. CONCRETE MANHOLES TO BE OF DOLOMITIC ORIGIN
		<ol> <li>CHANNELING &amp; BENCHING IN MANHOLES &amp; CULVERT SECTIONS TO BE OF GRANDOLITHIC CONCRETE &amp; MUST BE CONSTRUCTED WITH A</li> </ol>
		FINAL THICKNESS OF 25mm FOR CHANNELING & 50mm FOR BENCHING 3. CONCRETE COVER TO ALL REBAR TO BE 40mm
		<ol> <li>CONCRETE SECTIONS MUST BE FIXED WITH AN APPROVED EPOXY SEALER</li> </ol>
		<ol> <li>5. FACTORY MADE MANHOLE SECTIONS TO BE IN ACCORDANCE WITH SANS 1294</li> <li>6. NO PART OF THE MANHOLE MAY BE EINISHED</li> </ol>
		<ol> <li>NO FART OF THE MANHOLE MAT BE HINSHED OFF WITH CEMENT-WASH OR MORTAR</li> <li>TWO MANHOLE ACCESS SHAFTS MAY BE INOTENDED BY THE ENDINEED ONE AT EACH</li> </ol>
		END OF CULVERT SECTION 8. ENGINEER TO PROVIDE BENDING SCHEDULES
		FOR THE REINFORCEMENT 9. THE ROOF SLAB SHALL NOT BE FIXED TO THE RINGS WITH EPOXY BUT SHALL BE REMOVABLE
		FOR CLEANING PURPOSES. IT SHALL THEREFOR HAVE LIFTING LUGS CAST IN 10. STEP IRONS TO BE COPOLYMER
		POLYPROPYLENE ENCAPSULATED 12mm HIGH TENSILE STEEL BAR.
TRACT No.	PROJECT TITLE	ELINE DRAWINGS
DJECT No.		
HEET No.	DRAWING TITLE STANDARD DRAWING: SEWER RETICULATION	
	TYPICAL SEWER MANHOLE CONNECTION	
A1		
SCALE	COE DRAWING NUMBER STD-SR-006	