

	NOTES AND SPECIFICATIONS		
	No.	DESCRIPTION	7
		PE DIAME LEK = 200mm, PROVIDED THAT THE SECTIONAL AREA ADEQUATE (REFER CLAUSE 2104 (b) OF THE STANDARD PECIFICATIONS) IPERMEABLE BACKFILL MATERIAL, (MIN 150mm THICK)	_
120	(2) T L (3) F	KKEN TO TOP OF WATER BEARING LAYER, OR CONCRETE NING LTER SAND OF APPROVED SOURCE NATURAL ERMEABLE MATERIAL AND GRADE	
	(4a) (4b) F G	LTER STONE : FINE OR COARSE OF APPROVED SOURCE AND RADE AS REQUIRED (SUBCLAUSE 502.02 (b) OF HE STANDARD SPECIFICATIONS	
	(5a) (5b) A (6a) B	CREWER LED SUBSURFACE PIPES (NEATUBE UNTIL OR SIMILAR PROVED) DIM B4 FILTER MATERIAL OR SIMILAR APPROVED TYPE	-
	6b S (f	INTHEIR FILLER FABRIC GRADE 2, CLASS A IDIM A4 OR APPROVED EQUIVALENT) EVEL TO WHICH SURROUNDING AREA IS TO BE DRAINED	-
	(8) E (9) V 1. SUBSURF/	XTERNAL PIPE DIAMETER ATER BEARING STRATA ICE DRAINS	-
	1.1. REFER TO WORKS, 3F 1.2. WHERE TH	S01 OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL ENGINEERIN ID EDITION, 2005. E SUBSURFACE DRAINS ARE PLACED IN SOLID ROCK THYL ENE I INNECTESSARY	G
	1.3. THE FINAL VERIFIED NECESSAF	POSITIONS OF SUBSURFACE DRAINS WILL BE 39 THE ENGINEER ON SITE AND ALTERED IF Y	
LEVEL	2. FILTER CR	TERIA	7
	MATERIAL 0 50 (GF) = A SYNTHETI B. FILTER SA	VILL GO THROUGH VERAGE SIZE OR GAUGE OF OPENING IN THE FIBRE FILTER FABRIC ND (FS) IN RELATION TO	
200	WATER BE. 1. WHEN D ₈₅ (a)TO PREVE D ₁₅ (FS) < 1	RING STRATA (WS): WS) > 0.05mm: VBLOCKING OF FILTERSAND xD _{#6} (WS)	
400 100	D ₅₀ (FS) < 2 (b)FOR PERM D ₁₅ (FS) < 2 2, WHEN D_1	5x0 _∞ (NS) EABILITY OF SAND X0 ₁₆ (NS) NS) < 0.05mm :	
_	(a)TO PREVE D ₁₅ (FS) < (D ₀₅ (FS) > ((b)PERMEAB	NT DLOCKING OF FILTERSAND .25mm .075mm LITY REQUIREMENTS UNNECESSARY	
	C. FILTER ST (a) TO PREVE D ₁₅ (FK) < 5 D ₅₀ (FK) < 2	DNE (FSN) IN RELATION TO FILTER SAND (FS) NT BLOCKING OF FILTER STONE xD $_{go}(FS)$ xD $_{go}(FS)$	
	(b) PERMEAB SAND AT A D. FILTER ST PERFORAT	LITY: FILTER STONE MUST BE COARSER THAN L PERCENTAGES DNE (FSN) IN RELATION TO ONS IN PIPE	
	D ₈₅ (FSN) > D ₈₅ (FSN) > E. SYNTHETH	1.2 x DIAMETER OF ROUND PERFORATIONS 1.2 x WIDTH OF SLOTS 2 FIBRE FILTER FABRIC (SF) IN 0 EIT LER SAND (SS)	
	RELATION (a)TO PREVE 0 ₅₀ (SF) < [(b)FOR PERM 0 ₅₀ (SF) > [UT ILLER SAWU (FS) TT CLOGGING OF SYNTHETIC FIBRE FILTER FABRIC (FS) $_{85}$ EABILITY : (FS) $_{15}$	
	3. CAST INSIT 3.1. CONCRETE	U CONCRETE TO BE CLASS 20/19.	-
	3.2. CONCRETI 3.3. ALL FORMI 3.4. ALL UNFOR	: TO BE CURED FOR A MINIMUM OF 7 DAYS. D SURFACES SHALL HAVE A CLASS F3 SURFACE FINISH. MED SURFACES SHALL HAVE A CLASS U2 SURFACE FINISH.	
STONE PITCHING (METHOD 1)			
FREQUIRED			
-т			
- '			
	AMENDMENTS		
	NR. DA	TE APPROVED	DESCRIPTION PAR.
	DESIGNED J.J. WESSELS	S PR ENG. S. AU	DIE
	SIGNATURE: DESIGN CHECKI J.J. WESSELS	D BY INFRAS PR ENG.	STRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS
	SIGNATURE:		
	P.O. BOX 140	9 P. (Pheko) 9 CITY OF TCHIMANE	Mr Lebepe M.T. (Thabo) P.O. BOX 1409
	0001		CUTIVE DIRECTOR
	SIGNATURE:	ROJECT:	DATE:
	TYPICAL STANDARD		
	DFTAILS		
	DRAINS		
	CONTRACT No. :	PROJI	ECT No. :
	DATE :	SCALE :	ORIGINAL PAPER SIZE:
	FEBRUARY	2017 AS SHOWN	Α1 T NO: Δ
0 10 20 40 60 80m	ST)022	