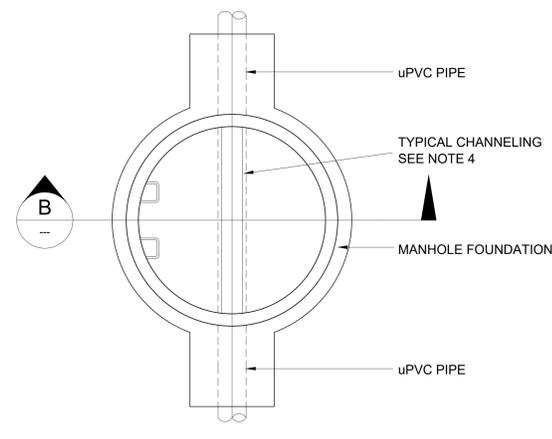
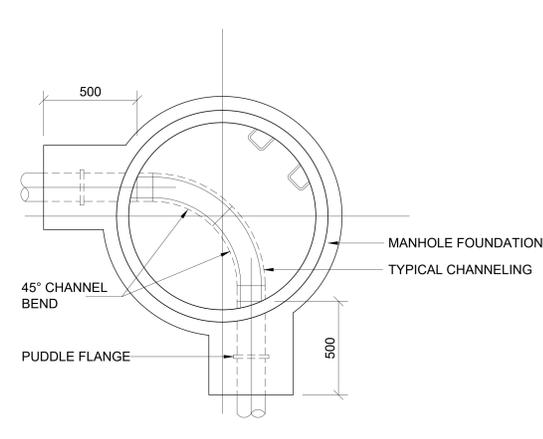


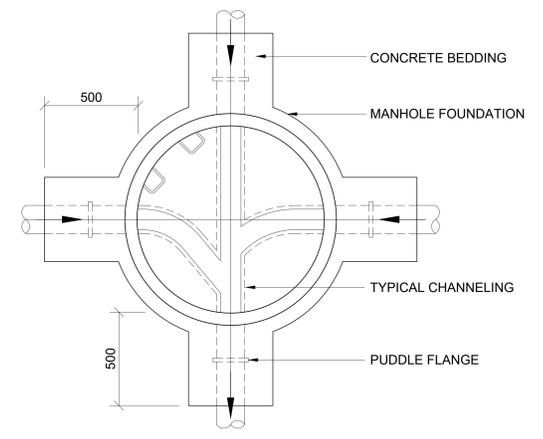
PLAN
(TYPICAL EXAMPLE WHERE uPVC PIPES ARE USED)



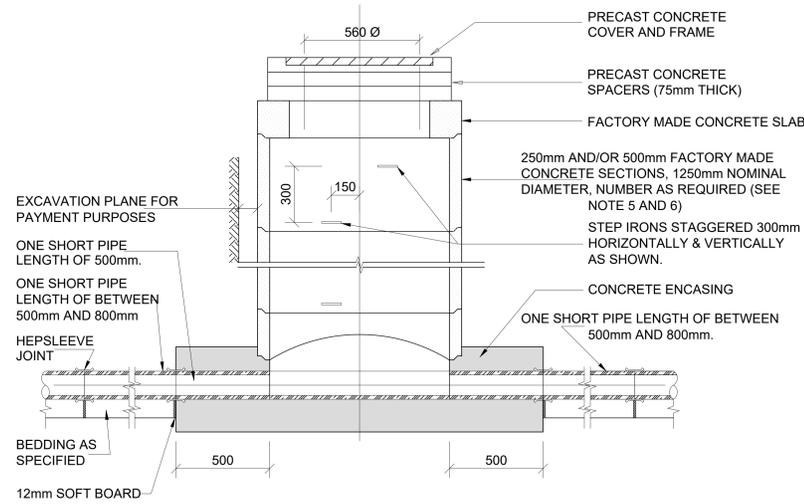
PLAN
(TYPICAL EXAMPLE WHERE uPVC PIPES ARE USED)



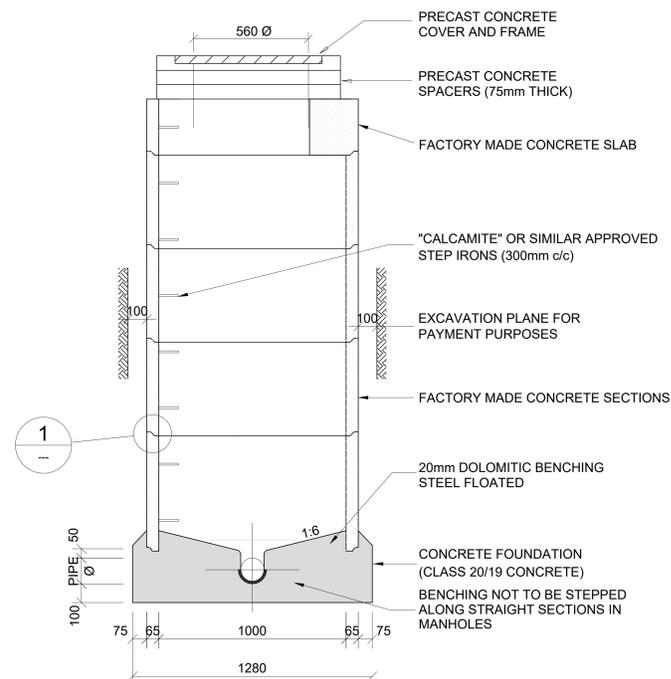
PLAN
(TYPICAL EXAMPLE WHERE HDPE PIPES ARE USED)



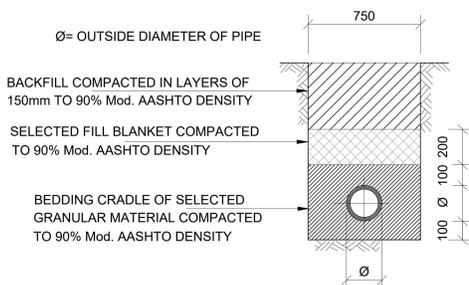
PLAN



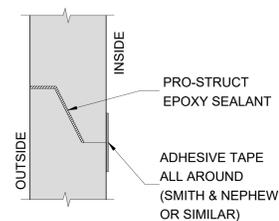
SECTION C



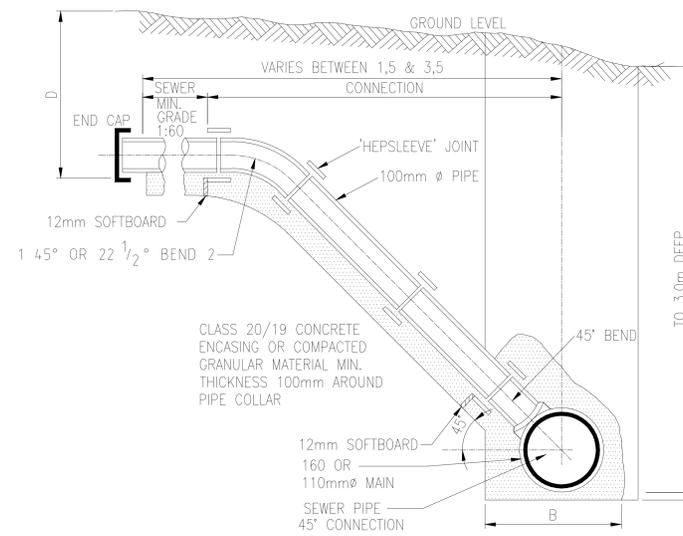
SECTION B
SCALE 1 : 20



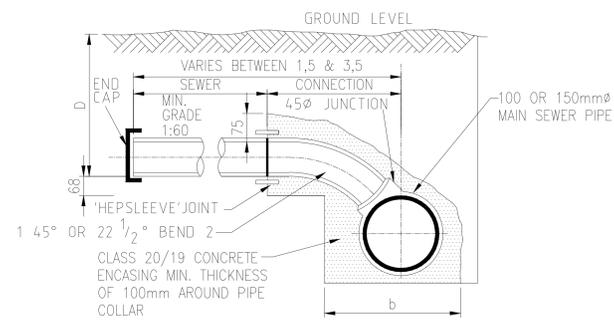
BEDDING DETAILS : FLEXIBLE PIPES.
NTS



DETAIL 1
NTS



SLOPING HOUSE CONNECTION - TYPE 2 to TYPE 5
NTS



DIRECT HOUSE CONNECTION - TYPE 1
NTS

- NOTES
- 1) CONCRETE FOR MANHOLES MUST BE OF DOLOMITIC ORIGIN.
 - 2) TOP OF FRAME MUST BE 150mm ABOVE NATURAL GROUND LEVEL AND SURROUNDED BY GROUND.
 - 3) GRAVEL SIDEWALKS:
(a) TOP OF THE FRAME MUST BE 50mm ABOVE FINISHED GROUND LEVEL OF SIDEWALKS.
(b) IN CASE SIDEWALK IS NOT FINISHED OFF, THE HEIGHT OF THE FRAME MUST BE DETERMINED BY THE ENGINEER.
 - 4) CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE PIPES.
 - 5) CONCRETE SECTIONS MUST BE FIXED WITH AN EPOXY AND SILICA MIXTURE (WHICH HAS BEEN APPROVED BY AN ENGINEER).
 - 6) FACTORY MADE MANHOLE SECTIONS MUST BE IN ACCORDANCE WITH S.A.B.S. 1924-1981.
 - 7) MANHOLE FRAMES MAY ONLY BE BUILT IN ON SLOPED FINISHED SIDEWALKS ON A WRITTEN INSTRUCTION BY THE ENGINEER.
 - 8) OVER EXCAVATION MAY ONLY BE FILLED AFTER APPROVAL BY THE ENGINEER WITH GRADE 20/19 CONCRETE OR SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.

AMENDMENTS	NR	DATE	APPROVED	DESCRIPTION	PAR
	001	18-11-2021		ISSUED FOR APPROVAL	
	002	19-11-2021		ISSUED FOR DETAIL DESIGN APPROVAL	
	003	27-11-2021		ISSUED FOR CONSTRUCTION	

FOR CONSTRUCTION

CONSULTANTS DETAIL

KAZIA
engineering

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Bloomfontein
8001

DESIGNED BY	AF CONDASHE
Prof. Reg. No.	20083000
CHECKED BY	
NAME	
Prof. Reg. No.	
SIGNATURE	

human settlements
DEPARTMENT OF
Human Settlements
FREE STATE PROVINCE

Mr S Mokgalle
DEPARTMENT OF HUMAN SETTLEMENTS
P.O. BOX 211
BLEDENKONTEN
9300

Mr Stephen Moloadi
METSIMAIHOLO MUNICIPALITY
P.O. BOX 60
SASOLBURG
1987

DESIGNED	
DRAWING CHECKED BY	
DRAWN	
CIVIL DRAUGHTING SERVICES	
DRAWING APPROVED BY EXECUTIVE DIRECTOR	

LOCATION OF PROJECT:	
DESCRIPTION OF PROJECT:	
CONTRACT NO.	RFP-HS-B01/2016/2017

MOOIDRAAI-TOWNSHIP

PROVISION OF BASIC CIVIL INFRASTRUCTURE
TYPICAL SEWER DETAILS

PROJECT NO. 0001

SCALE AS SHOWN

DATE 27-11-2021

DRAWING NO. KAZ-001-2580-A

SHEET NO 1 OF 1

REVISION A

PROJECT STATUS	
DESIGNED	<input checked="" type="radio"/>
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DRAWN	<input type="radio"/>
CHECKED	<input type="radio"/>
APPROVED	<input type="radio"/>
ISSUED FOR CONSTRUCTION	<input type="radio"/>
INTIALS AND SURNAME	SIGNATURE & R. NUMBER
DATE	DATE
REVISIONS	ORIGINAL PAPER NO.
AD	