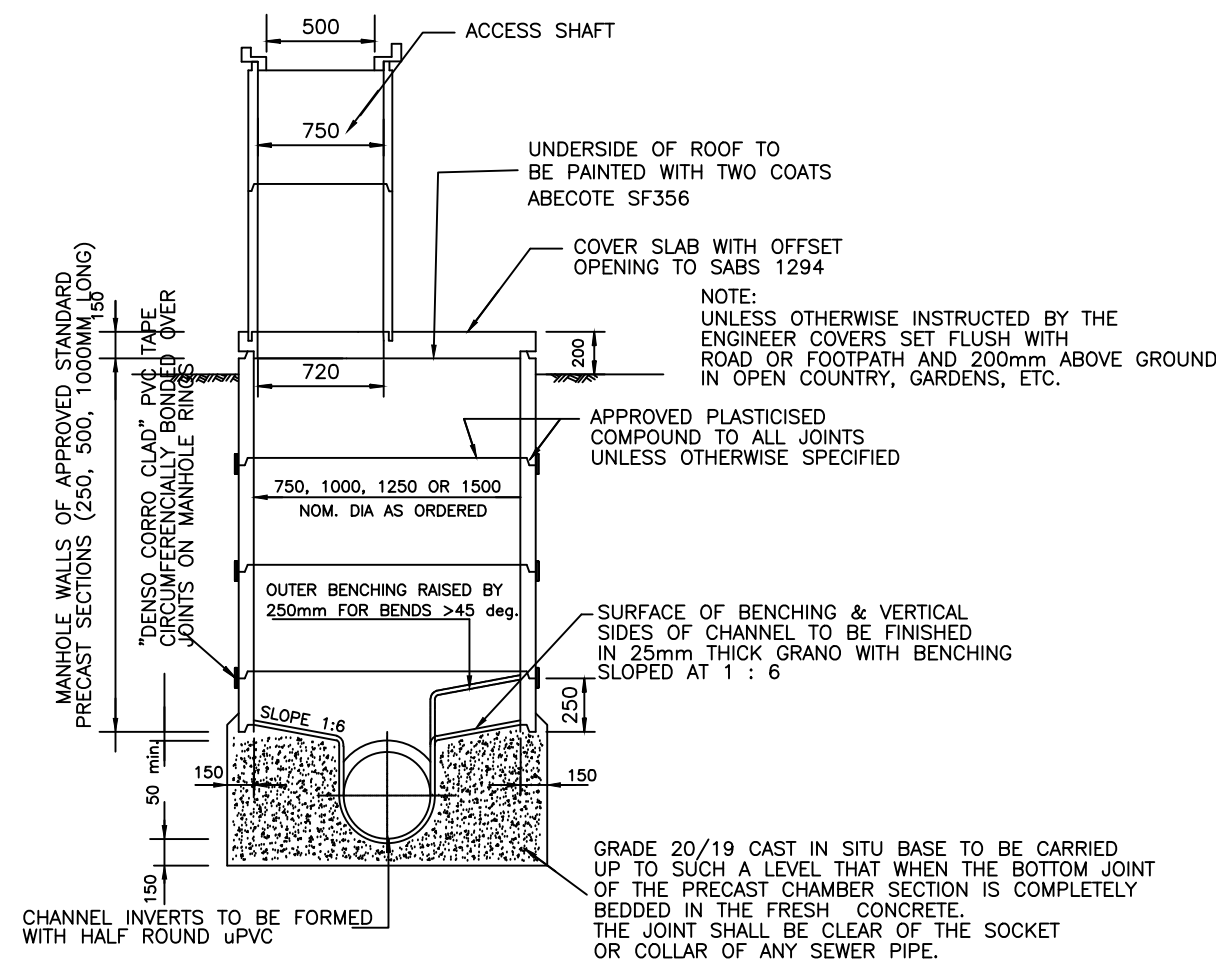
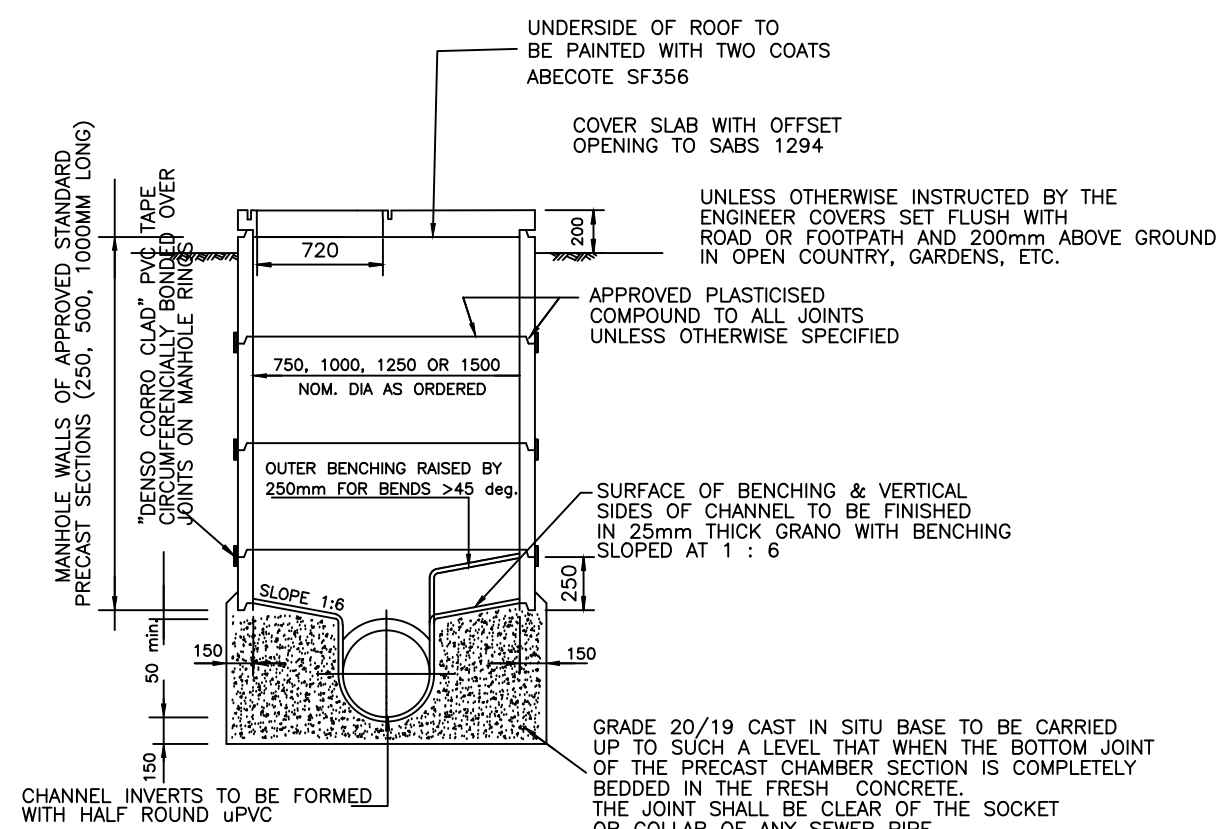




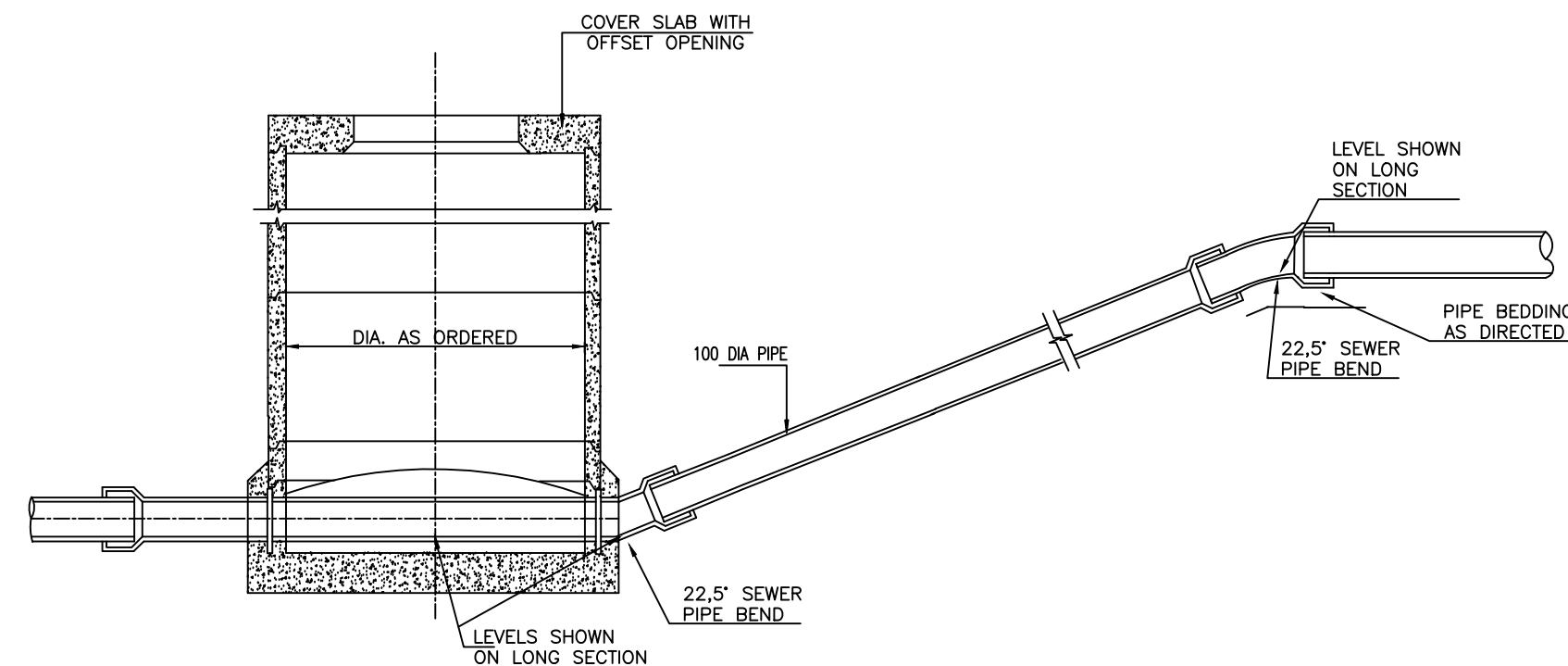
SECTION A-A

TYPICAL PRECAST CONCRETE SEWER MANHOLE WITH ACCESS SHAFT

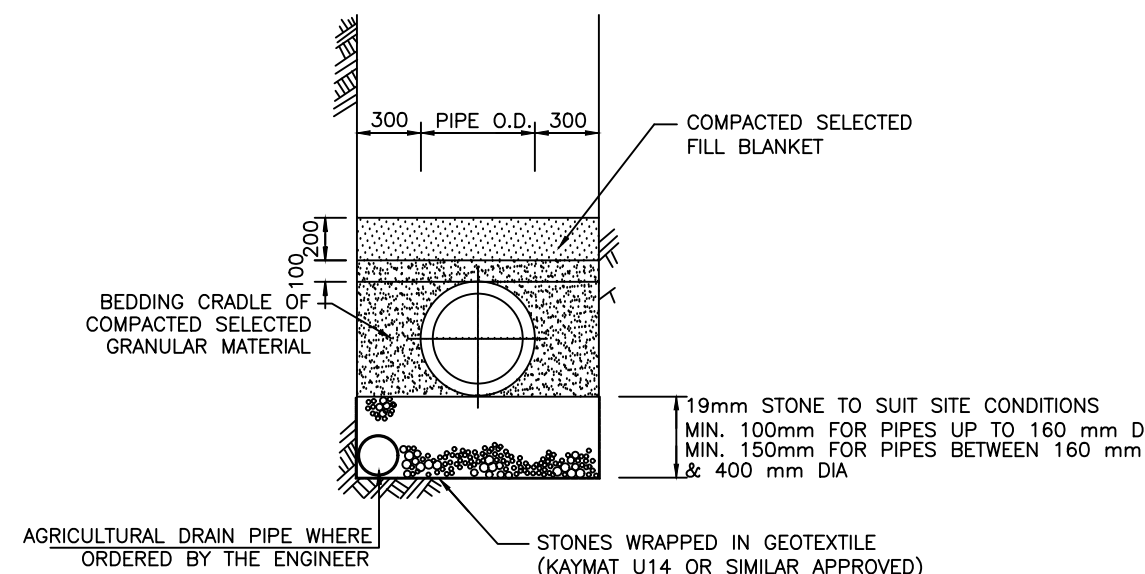


SECTION A-A

TYPICAL PRECAST CONCRETE SEWER MANHOLE



MANHOLE CHAMBER WITH 22.5 DEG RAMP

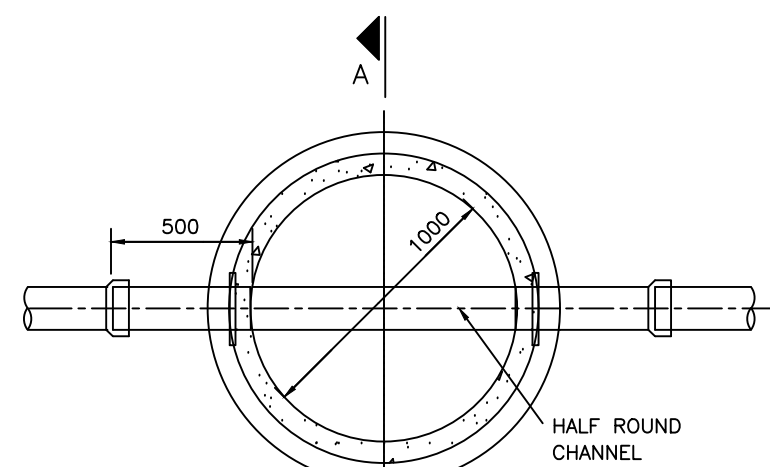


TYPICAL TRENCH SECTION IN WATERLOGGED AREAS

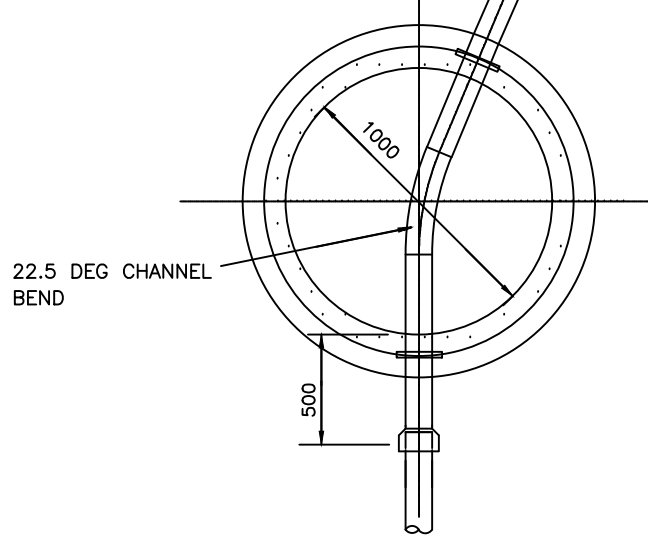
MANHOLE RINGS DETAIL

COMBINATION No.	MANHOLE ACCESS SHAFT RING DEPTH (m)	NUMBER OF MANHOLE ACCESS SHAFT RINGS	MANHOLE CHAMBER RING DEPTH (m)	NUMBER OF MANHOLE CHAMBER RINGS	TOTAL DEPTH (m)	NUMBER OF MANHOLES
1	500	1	750	1	1250	2
2	500	1	1000	2	2500	5
3	500	1	750	3	2750	4
4	250	1	750	4	3250	2
5	500	1	750	4	3500	2
6	500	1	1000	4	4500	2
7	250	1	750	5	4000	1
8	500	1	1000	6	6500	1
9	250	1	1000	7	7250	1
10	500	1	750	7	5750	1
11	500	1	1000	9	9500	3
12	250	1	1000	9	9250	8
13	500	1	750	10	8000	5
14	250	1	1000	10	10250	1
15	500	1	750	11	8750	4
16	250	1	750	11	8500	4

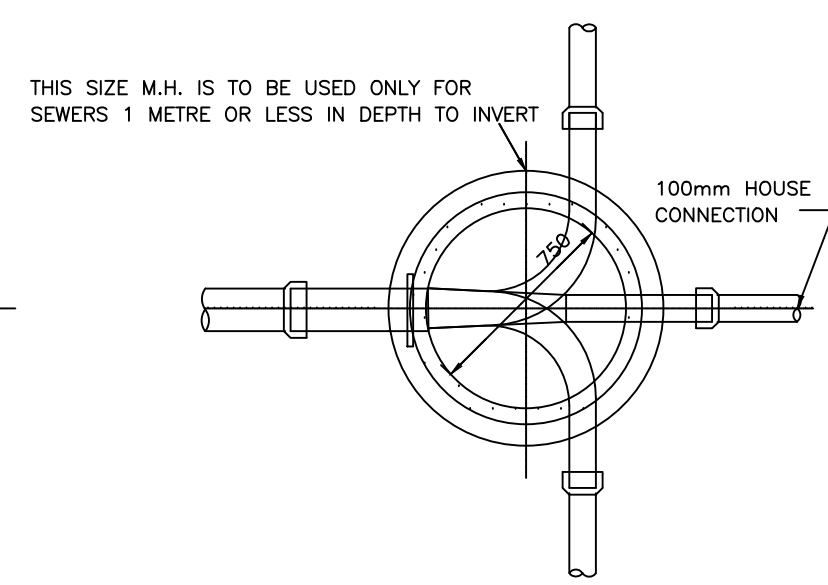
TOTAL NUMBER OF MANHOLE RINGS		
ITEMS	DEPTH	TOTAL No
Manhole Access Shaft Rings	250	6
	500	11
Manhole Chamber Rings	750	67
	1000	47



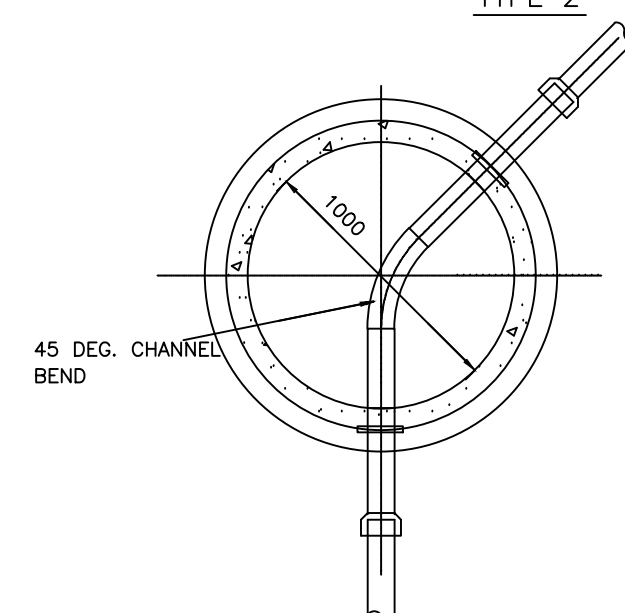
STRAIGHT TYPE 1



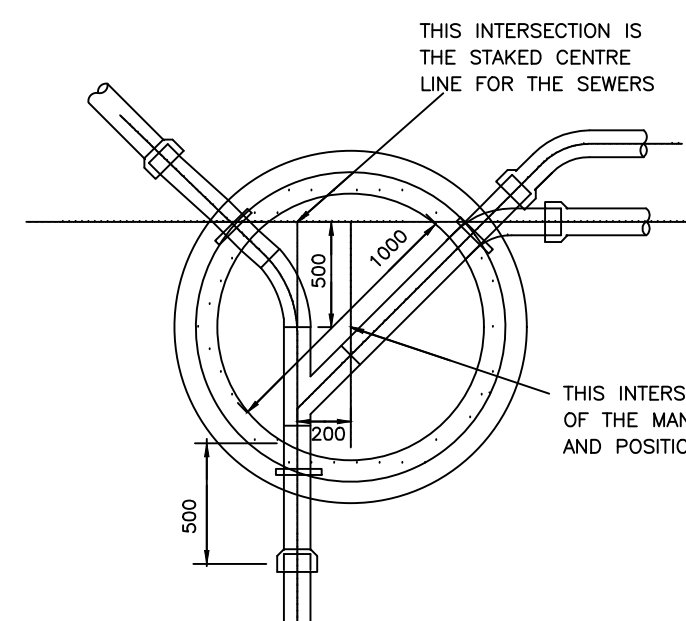
22.5 DEG BEND TYPE 7a



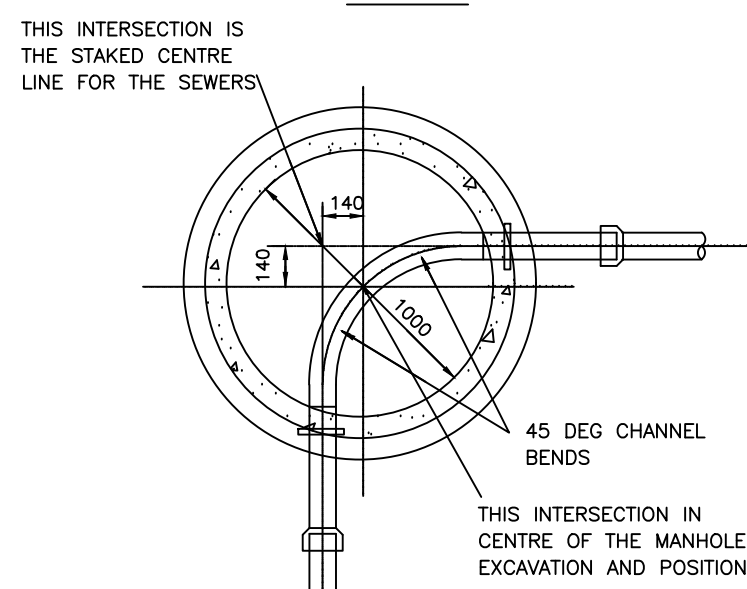
TERMINAL M.H. SERVING ONE PROPERTY SIDE OR STRAIGHT ONLY TYPE 2



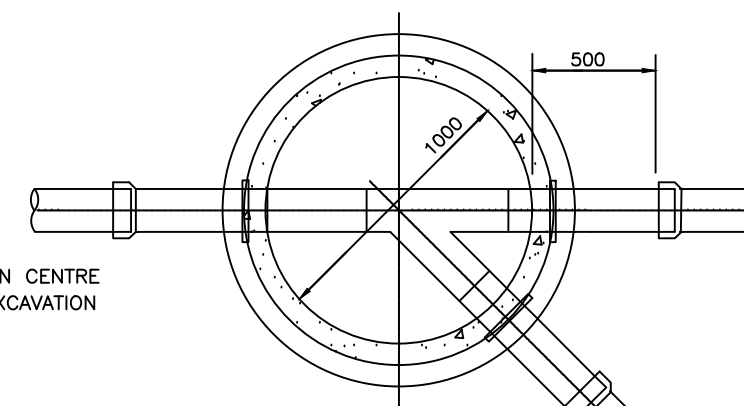
45 DEG BEND TYPE 7b



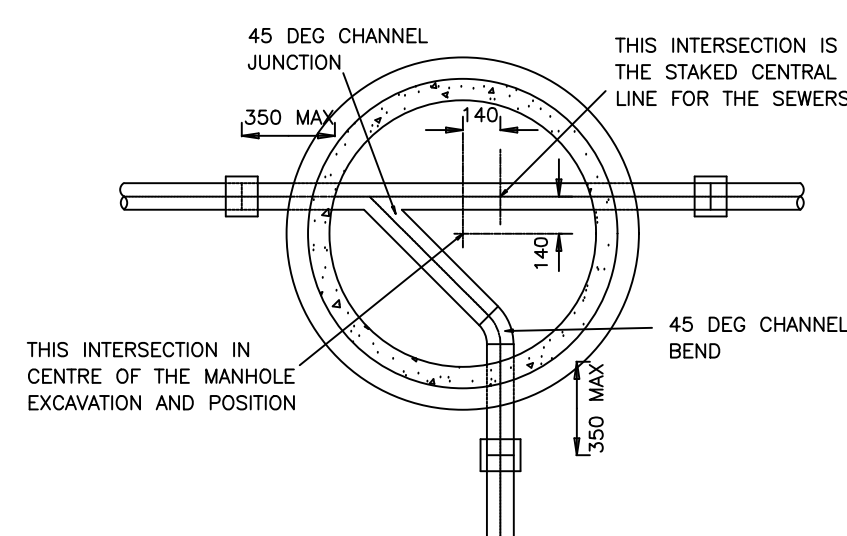
TEE JUNCTION TYPE 4



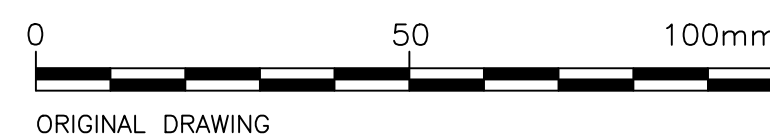
90 DEG BEND TYPE 7c



45 DEG JUNCTION TYPE 5



90 DEG JUNCTION TYPE 8



DRAWING STATUS
ISSUED FOR TENDER

ORIGINAL SCALE
AS SHOWN ON A0

ALT. DWG. No. CONTRACT No.
SCMU 002/2023/2024

SHT. No. 1 OF 2 PROJECT No.
J079

DRAWING No. REVISION
J079(07)-D12 0

No.	REFERENCE DRAWINGS
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0	ISSUED FOR TENDER	06/23	G.M	S.M
△	REVISIONS	DATE	CHKD	APPRV
ONLY REVISIONS MARKED THUS △ ARE VALID				

DESIGNED	G. MLAMBO
CHECKED	G. MLAMBO
DRAWN	N. MAGWAZA
CHECKED	G. MLAMBO
PROJ. ENG.	G. MLAMBO


ZIYANDA
consulting
 TEL: (033) 346 0689
 FAX: (033) 346 0692
 E-mail: ziyanda@ziyandaconsulting.co.za
 PO BOX 809
 HILTON
 PIETERMARITZBURG
 3245
 APPROVED :
 S. MGUTSHINI
 (PR ENG REG. No. 20040208)


 APPROVED : _____

PROJECT/DRAWING TITLE: **UMKHANYAKUDE DISTRICT MUNICIPALITY**
THEMBALETHU SANITATION PROJECT
CONSTRUCTION OF CIVIL WORKS FOR THE UPGRADE OF THE MKUZE WASTEWATER TREATMENT WORKS AT MKUZE
 STANDARD DETAILS