



KENYA REVENUE AUTHORITY

ISO 9001:2015 CERTIFIED

31st January 2020

To all Prospective bidders,

TENDER NO. KRA/HQS/NCB-051/2019-2020- PROPOSED CIVIL WORKS FOR SEWER LINE OVERFLOW AT LANGATA ESTATE

RE: ADDENDUM/CLARIFICATION SET "1"

Kenya Revenue Authority wishes to inform prospective bidders of the clarifications highlighted below for the tender for the above tender.

Table 1: Clarification to Bidder's Query

Tender Page No.	Description in the Tender document	Bidders Questions	KRA's Response
Page 1	Tender Closing Date	Kindly confirm if the closing date of this tender is 10 th February 2020 or 18 th February 2020	The closing date for this tender is 18 th February 2020 at 11:00am
Page 42	Vendor Evaluation Scores	Kindly confirm if the total score of vendor evaluation is 80 or 100 marks	The total score of vendor evaluation is 100 marks
Appendix 1: BOQ Page 5	Bid Security	Is the bid security amount KES. 50,000.00 or 150,000.00?	The bid security amount is 150,000.00 which should be valid for 365 days from the date of tender opening

Table 2: Second Site Visit Date

Tender Page No.	Description in the Tender document	Second Site Visit Date
Page 3	Site Visit Date	The 2 nd site visit date is on 4 th February 2019 at 11:00am. The site location is KRA Langata Housing Estate.

Page 23 of Appendix 1 (Bill of Quantity) had been amended. Therefore bidders are required to fill the attached Bill of Quantity for page 23 marked as "1".



KENYA REVENUE AUTHORITY

ISO 9001:2015 CERTIFIED

Attached also find the drawings of the site marked as "2".

The addendum/clarifications form part of the bidding document and is binding to the bidder. All other terms and conditions of the tender remain the same. You are therefore required to immediately acknowledge the receipt of this addendum/clarifications.

Regards,

Benson Kiruja

For: Deputy Commissioner - Supply Chain Management



Tulipe Ushuru, Tujitegemeel!

Times Tower Building - Haile Selassie Avenue - P.O. Box 48240-00100 GPO, Nairobi, Kenya, Tel: 020-281 0000

**KENYA
VISION 2030**

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
<u>ELEMENT NO 2</u>					
<u>FOUL DRAINAGE (ALL PROVISIONAL)</u>					
<i><u>Excavate trench for drain pipe not exceeding 3.00 metres deep part return fill and ram and remainder cart away; allow for excavating in soft/hard material (all classes)</u></i>					
A	Trench, average 750 mm deep for 100 mm diameter pipe	LM	100.00		
B	Trench, average 1000 mm deep for 100 mm diameter pipe	LM	50.00		
C	Trench, average 1250 mm deep for 150 mm diameter pipe	LM	50.00		
D	Trench, average 1500 mm deep for 225 mm diameter pipe	LM	158.00		
E	Trench, average 2250 mm deep for 225 mm diameter pipe	LM	91.00		
F	Trench, average 1500 mm deep for 300 mm diameter pipe	LM	41.00		
G	Trench, average 1750 mm deep for 300 mm diameter pipe	LM	21.00		
<i><u>Key terrain or other equal and approved buried waste and soil UPVC pipes and fittings</u></i>					
H	100 mm diameter soil pipe laid in trench	LM	150.00		
I	150 mm diameter soil pipe laid in trench	LM	50.00		
<i><u>Spun concrete ogee cylindrical pipes and fittings to B.S. 556, Part 2</u></i>					
I	225mm pipe laid in trench	LM	249.00		
J	300mm pipe laid in trench	LM	62.00		
<i><u>Plain concrete 1:3:6 (25 mm aggregate) as described in</u></i>					
K	575x100mm thick bed to receive 300mm diameter pipe	LM	62.00		
L	500x100mm thick bed to receive 225mm diameter pipe	LM	249.00		
M	425x100mm thick bed to receive 150mm diameter pipe	LM	50.00		
N	375x100mm thick bed to receive 100mm diameter pipe	LM	150.00		
O	150mm thick surround to 300mm diameter pipe	LM	62.00		
P	150mm thick surround to 225mm diameter pipe	LM	249.00		
Q	150mm thick surround to 150mm diameter pipe	LM	50.00		
R	100mm thick surround to 100mm diameter pipe	LM	150.00		

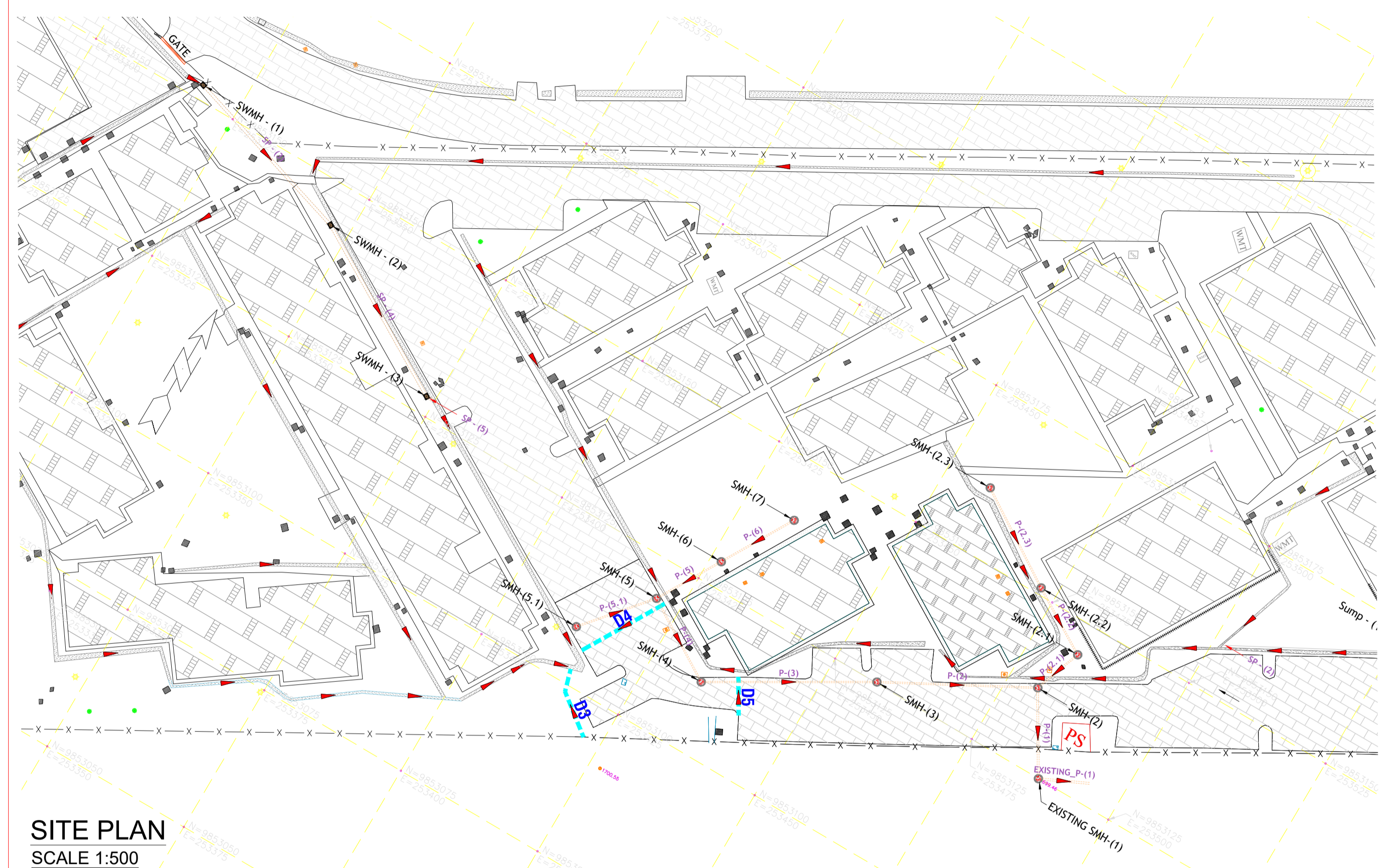
Carried to Collection



DRAWING LIST	PLAN LEGEND	PLAN LEGEND	NOTES:	
01 ROAD AND WALL PLANS	EXISTING BUILDINGS	DRAIN WITH GRATING	1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN 2. ALL CONNECTIONS TO EXISTING SERVICES TO BE DONE TO RELEVANT AUTHORITIES APPROVAL APPROVAL 3. THE COORDINATE PROJECTION IS THE ARC 1960 37S WITH UTM COORDINATES 4. THE LEVELS ARE TIED TO THE NATIONAL GRID 5. ALL THE EXTERNAL/OUTFALL DRAINS TO BE CLEANED FROM THE DEBRIS AND RUBBISH IN THEM 6. THE EXISTING DRAINS AT THE LOWEST POINTS CONNECTING TO THE OUTFALL TO BE EXTENDED AT THEIR ENDS TO CASCADE INTO THE EXISTING COUNCIL DRAINS/CULVERT	
02 RING MANHOLE DETAILS	EXISTING STORM DRAINS	PLOT BOUNDARY WALL		
ABBREVIATIONS	EXISTING SEWER MANHOLES	COORDINATE GRIDS		
	SEWER RING MANHOLE	SUMP		
	SMH - SEWER MANHOLE	PCC SEWER PIPE		STORM RECTANGULAR MANHOLE
	P-(X.X) - SANITARY SEWER PIPE	UPVC STORM PIPE		EXISTING MANHOLES
SP-(X.X) - STORM PIPE	SHALLOW DRAIN	PAVED ROADS		
SWMH - STORM WATER MANHOLE				



LOCATION PLAN
NTS



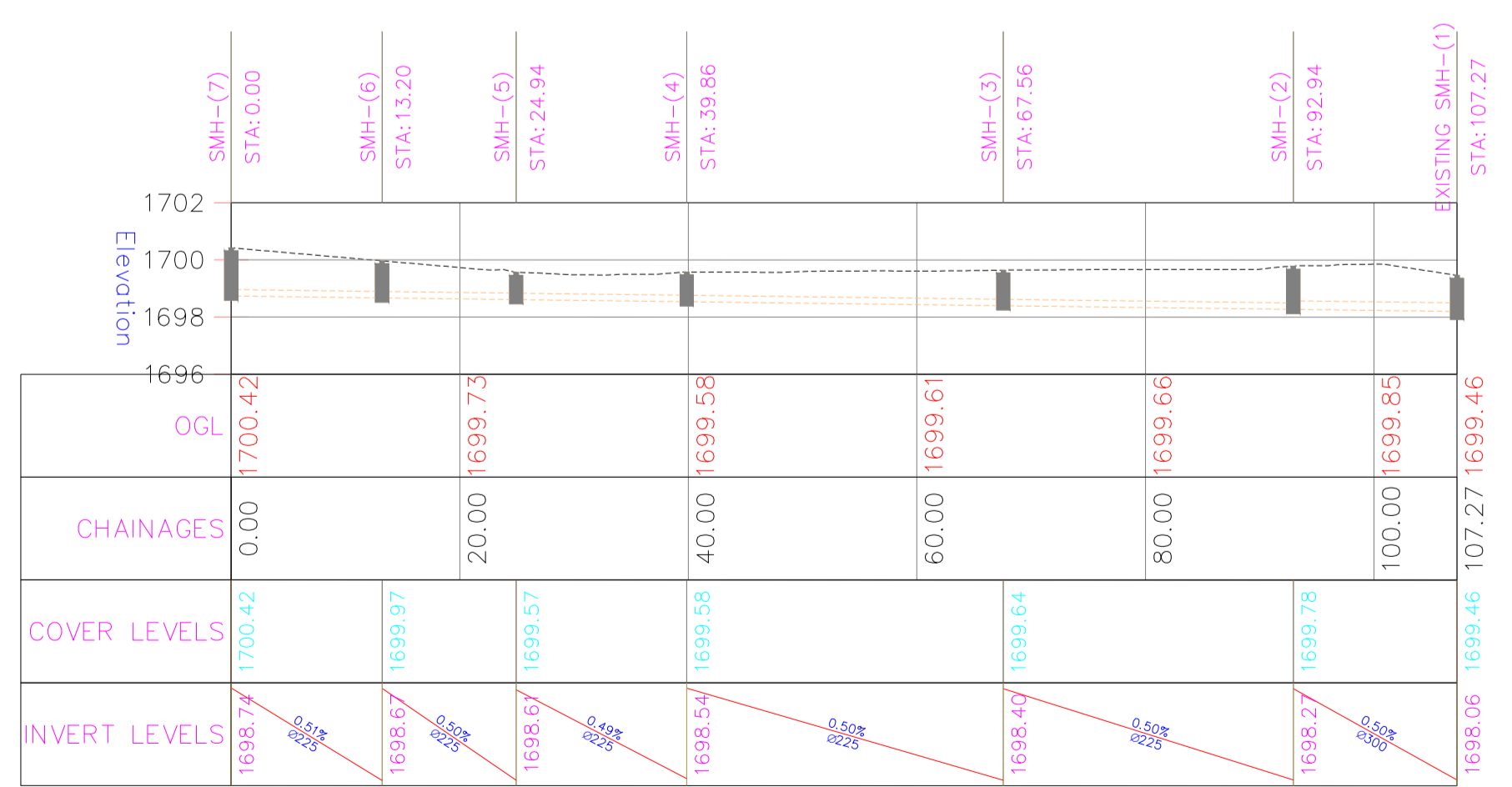
SITE PLAN
SCALE 1:500

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:	COORDINATES
SWMH - (1)	TYPE: RECTANGULAR MANHOLE RIM = 1701.07 HEIGHT: 1.38		SP - (3) DIA: 450 mm INV IN = 1699.70 L=29.21m SLOPE: 0.50%	N: 9853152.2840 E: 253318.6422
SWMH - (2)	TYPE: RECTANGULAR MANHOLE RIM = 1700.11 HEIGHT: 0.56	SP - (3) DIA: 450 mm INV IN = 1699.56 L=29.21m SLOPE: 0.50%	SP - (4) DIA: 450 mm INV OUT = 1699.55 L=30.356m SLOPE: 0.50%	N: 9853143.4804 E: 253347.1309
SWMH - (3)	TYPE: RECTANGULAR MANHOLE RIM = 1699.95 HEIGHT: 0.56	SP - (4) DIA: 450 mm INV IN = 1699.40 L=30.356m SLOPE: 0.50%	SP - (5) DIA: 450 mm INV OUT = 1699.40 L=1.139m SLOPE: 20.72%	N: 9853127.8898 E: 253373.8700

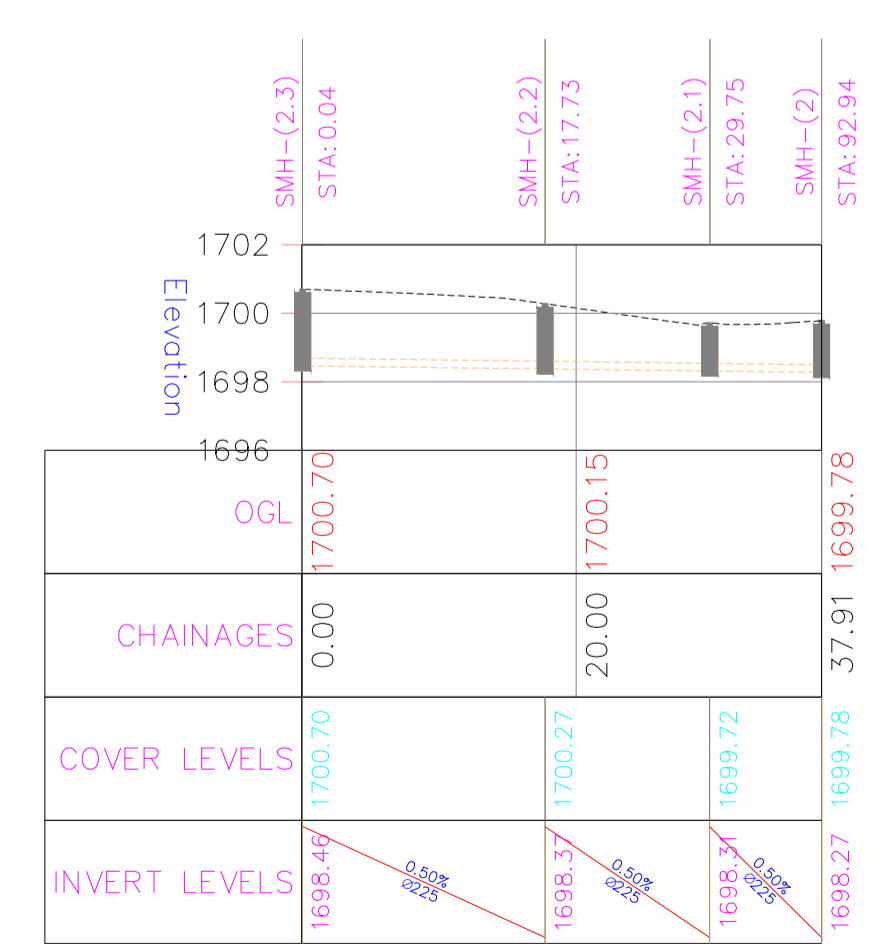
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:	COORDINATES
SMH-(2.3)	TYPE: RING MANHOLE RIM = 1700.70 HEIGHT: 2.24		P-(2.3) DIA: 225 mm INV OUT = 1698.46 L=16.649m SLOPE: 0.50%	N: 9853160.5919 E: 253457.7335
SMH-(7)	TYPE: RING MANHOLE RIM = 1700.42 HEIGHT: 1.68		P-(6) DIA: 225 mm INV OUT = 1698.74 L=12.156m SLOPE: 0.51%	N: 9853140.4812 E: 253433.6937
SMH-(2.2)	TYPE: RING MANHOLE RIM = 1700.27 HEIGHT: 1.90	P-(2.3) DIA: 225 mm INV IN = 1698.37 L=16.649m SLOPE: 0.50%	P-(2.2) DIA: 225 mm INV OUT = 1698.37 L=10.967m SLOPE: 0.50%	N: 9853151.0879 E: 253472.6616
SMH-(6)	TYPE: RING MANHOLE RIM = 1699.97 HEIGHT: 1.30	P-(6) DIA: 225 mm INV IN = 1698.67 L=12.156m SLOPE: 0.51%	P-(5) DIA: 225 mm INV OUT = 1698.67 L=10.684m SLOPE: 0.50%	N: 9853129.0310 E: 253427.1182
SMH-(2)	TYPE: RING MANHOLE RIM = 1699.78 HEIGHT: 1.51	P-(2) DIA: 225 mm INV IN = 1698.27 L=24.329m SLOPE: 0.50%	P-(1) DIA: 300 mm INV OUT = 1698.27 L=13.280m SLOPE: 0.50%	N: 9853137.2458 E: 253480.1931
SMH-(2.1)	TYPE: RING MANHOLE RIM = 1699.72 HEIGHT: 1.41	P-(2.1) DIA: 225 mm INV IN = 1698.27 L=7.117m	P-(2.1) DIA: 225 mm INV OUT = 1698.31 L=10.967m SLOPE: 0.50%	N: 9853144.9229 E: 253482.9740
SMH-(3)	TYPE: RING MANHOLE RIM = 1699.64 HEIGHT: 1.24	P-(2.2) DIA: 225 mm INV IN = 1698.31 L=10.967m SLOPE: 0.50%	P-(2) DIA: 225 mm INV OUT = 1698.31 L=7.117m SLOPE: 0.50%	N: 9853125.1553 E: 253457.8810
SMH-(4)	TYPE: RING MANHOLE RIM = 1699.58 HEIGHT: 1.04	P-(3) DIA: 225 mm INV IN = 1698.40 L=26.655m SLOPE: 0.50%	P-(2) DIA: 225 mm INV OUT = 1698.40 L=24.329m SLOPE: 0.50%	N: 9853111.0936 E: 253434.0123
SMH-(5)	TYPE: RING MANHOLE RIM = 1699.57 HEIGHT: 0.95	P-(4) DIA: 225 mm INV IN = 1698.54 L=13.878m SLOPE: 0.49%	P-(3) DIA: 225 mm INV OUT = 1698.54 L=26.655m SLOPE: 0.50%	N: 9853118.8626 E: 253421.2674
EXISTING SMH-(1)	TYPE: RING MANHOLE RIM = 1699.46 HEIGHT: 1.40	P-(1) DIA: 300 mm INV IN = 1698.20 L=13.280m SLOPE: 0.50%	EXISTING_P-(1) DIA: 300 mm INV OUT = 1698.06 L=7.594m SLOPE: 0.50%	N: 9853124.9520 E: 253487.5520

STRUCTURE NAME:	DETAILS:	PIPES IN:
D3(DRAIN 3)	TYPE: DRAIN WITH GRATING DEPTH: 0.3m LENGTH: 11.4m START INVERT: 1699.52 END INVERT: 1699.03	
D4(DRAIN 4)	TYPE: DRAIN WITH GRATING DEPTH: 0.45m LENGTH: 14.9m START INVERT: 1699.15 END INVERT: 1699.05	
D5(DRAIN 5)	TYPE: DRAIN WITH GRATING DEPTH: 0.45m LENGTH: 6.0m	

PROFILE GROUND LEVEL	_____
----------------------	-------

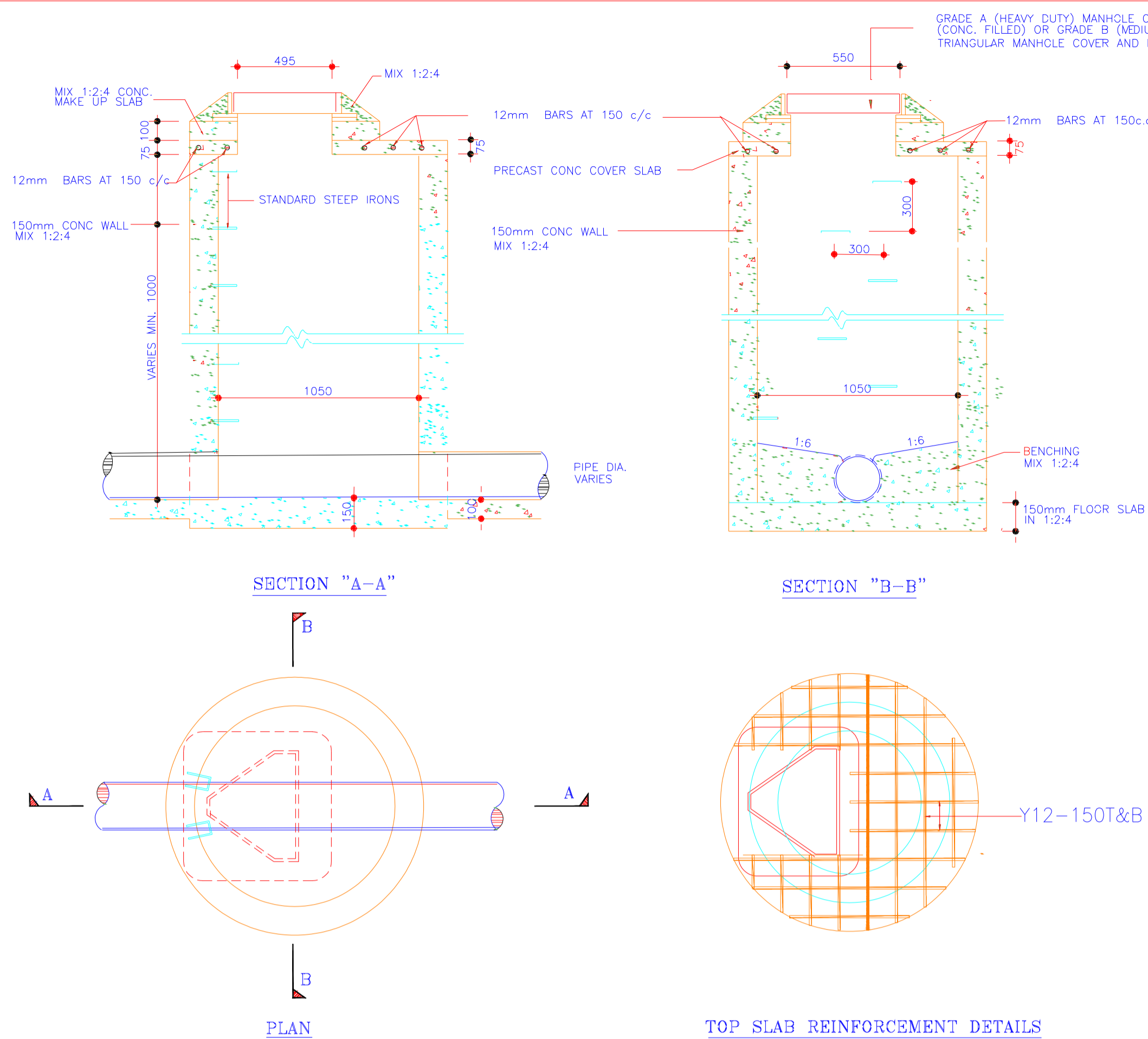


SEWER LINE 1 PROFILE
SCALE: HORI:1:500
VERT:1:200

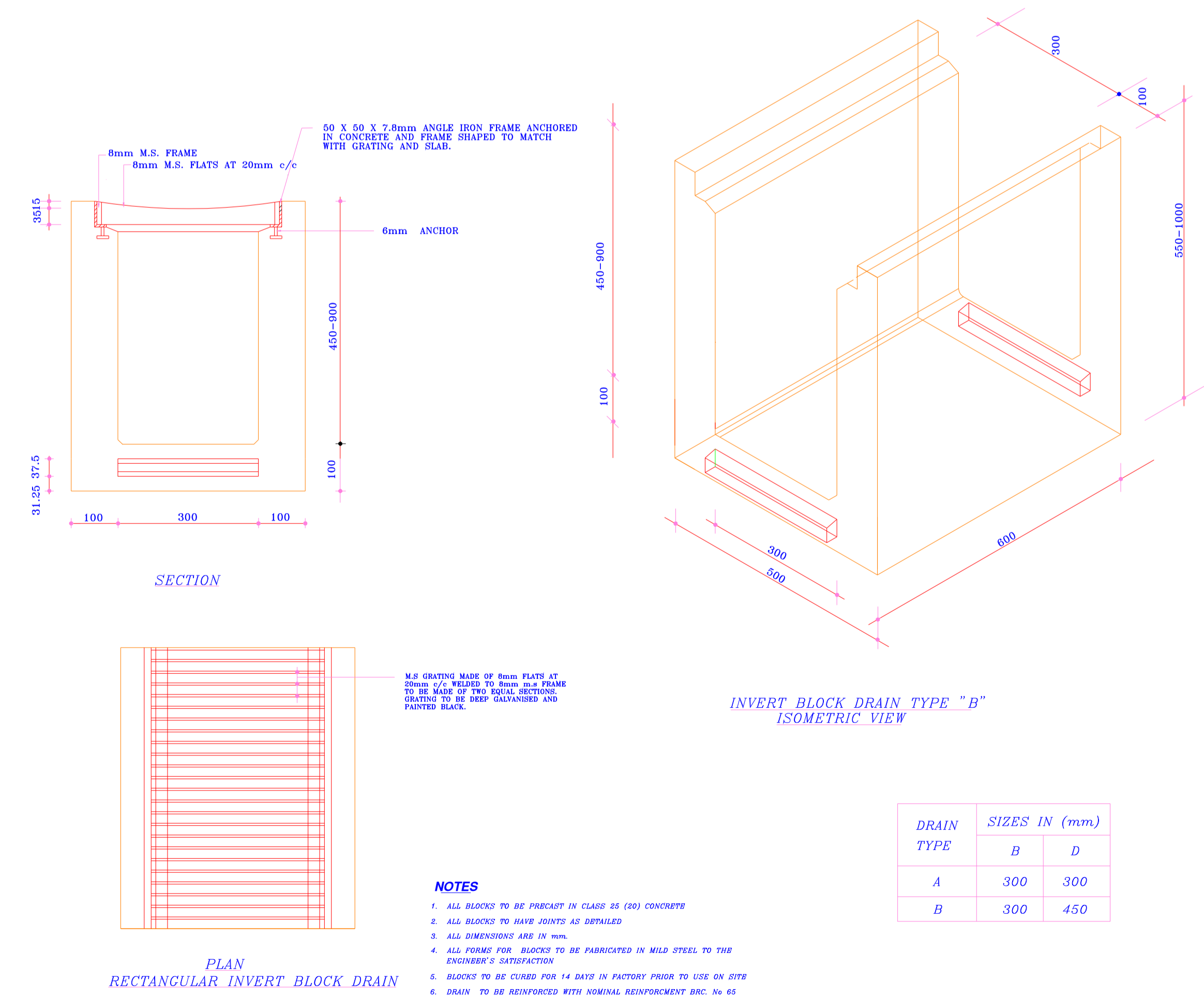


SEWER LINE 2 PROFILE
SCALE: HORI:1:500
VERT:1:200

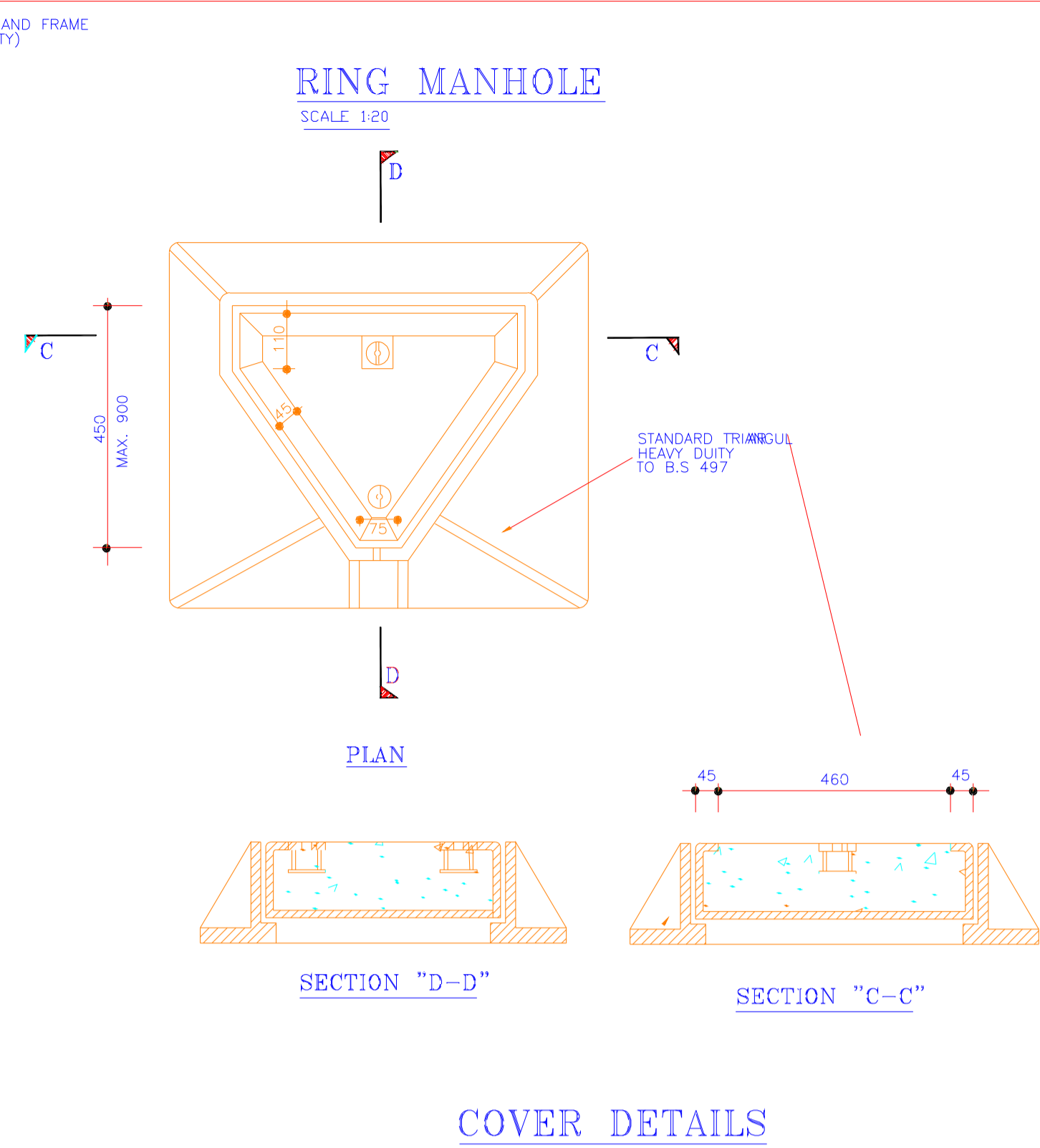
PROJECT: PROPOSED SEWER REHABILITATION @ KRA LANGATA	
DRAWING TITLE: DRAINAGE PLAN, PROFILES AND DATA	
CLIENT: KRA	
STRUCTURAL & CIVIL ENGINEERS: JKUATES P.O. BOX 62000-00100 NAIROBI.	
SCALE: AS SHOWN	DRAWN: K.M
DATE: JAN 2020	CHECKED: N.M
JOB NO. S/101/19	DRG NO. NM/KR/01



FOUL SEWER RING MANHOLE DETAIL
SCALE: NTS



GRATED DRAIN DETAILS
SCALE: NTS



NOTE

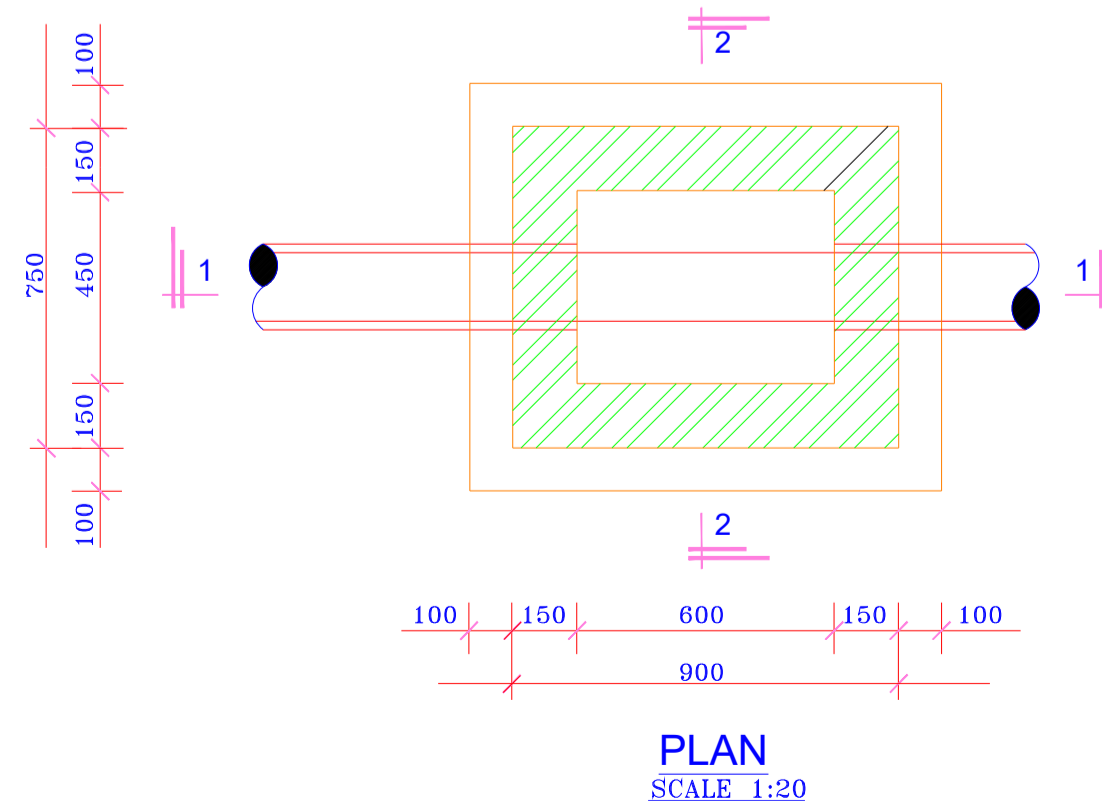
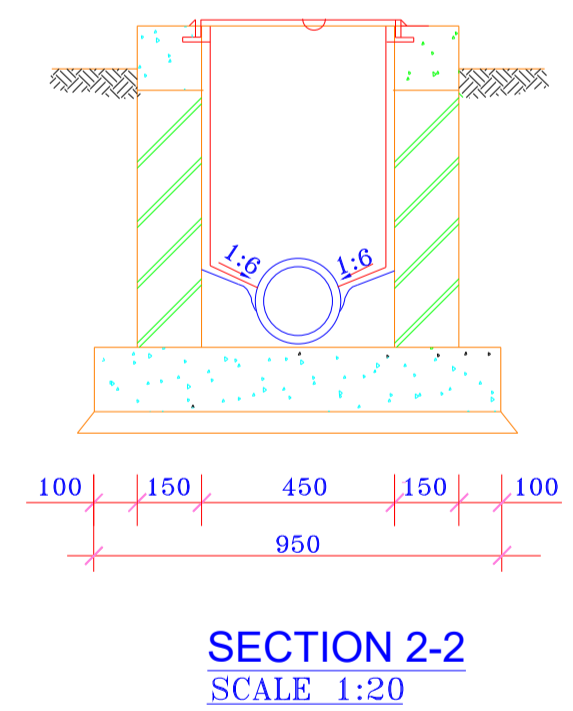
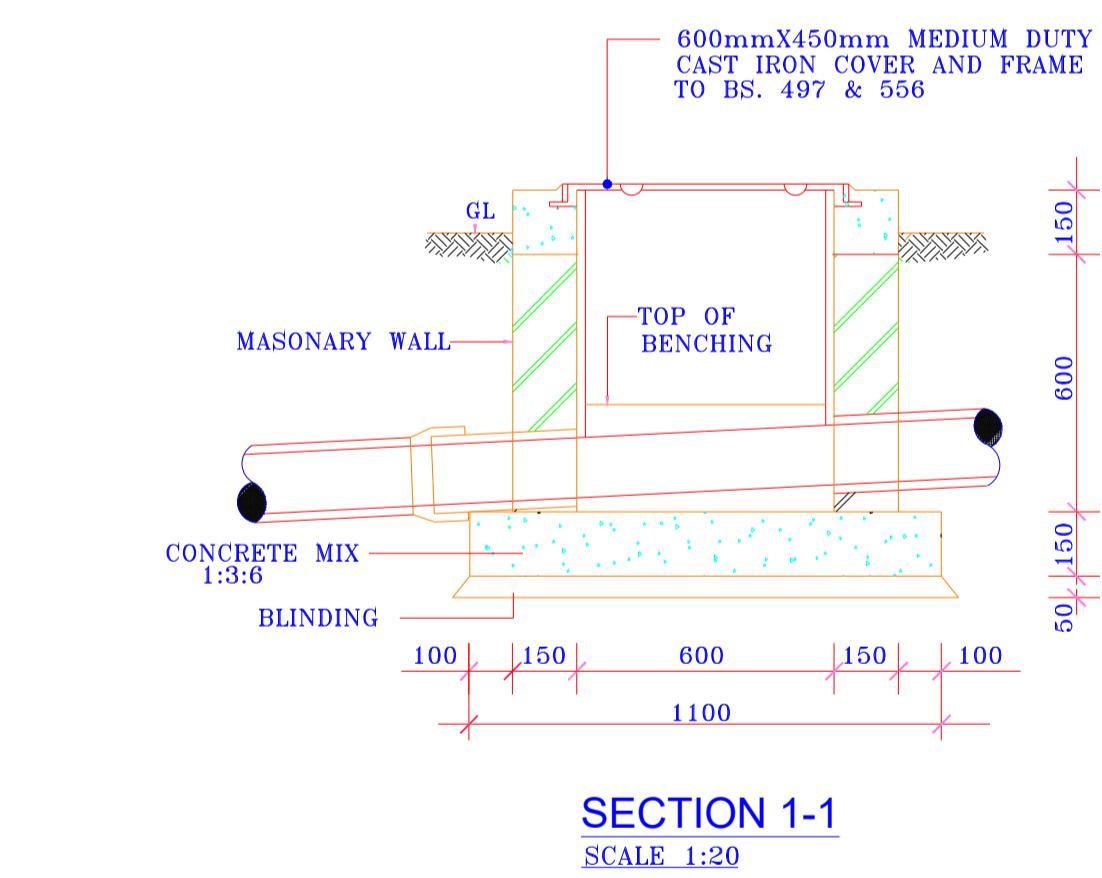
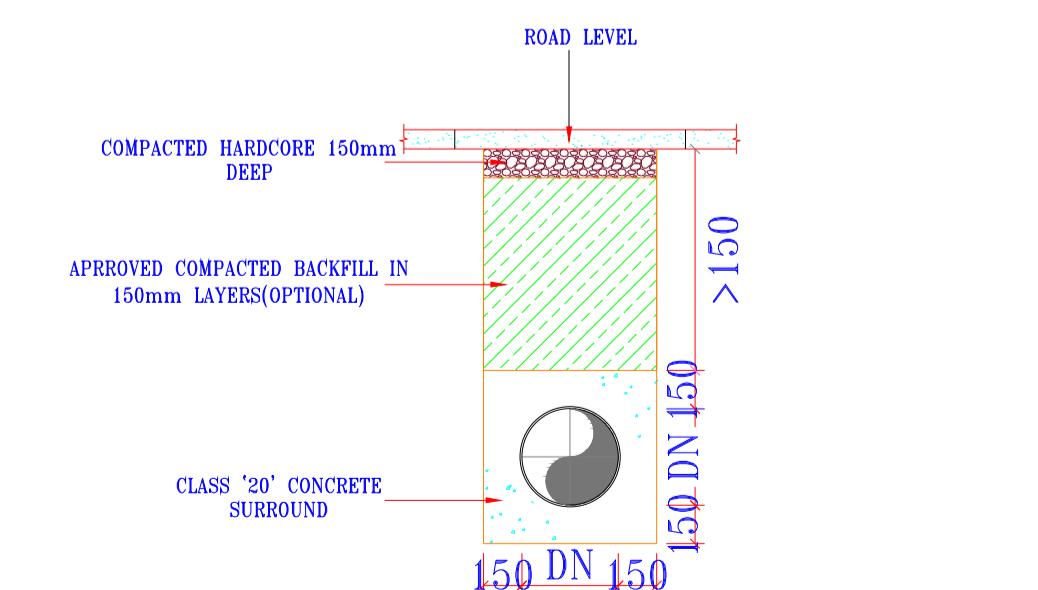
- COVER FABRICATION FROM 8mm M.S. PLATE.
- CONC. FILLING GRADE 15 (MIX 1:4:8) VIBRATED.
- TOLERANCE ON OVERALL SIZE +3mm.

SECTION C-C
SCALE: NTS
TYPICAL ROAD CROSSING DETAILS
SCALE: NTS

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL CONCRETE TO BE AS PER THE SPECIFIED CLASS
- ALL EXPOSED CONCRETE TO BE WROUGHT FINISHED.
- ALL EXPOSED CONCRETE MEMBERS TO HAVE A CHAMFER OF 25mm UNLESS STATED OTHERWISE.
- ALL STEEL MANHOLE COVERS TO BE PAINTED AFTER FABRICATION WITH TWO COATS OF ZINC BASED PRIMER
- STEP IRON ARE ONLY REQUIRED WHERE CHAMBER IS GREATER THAN 1000mm. DEEP
- MINIMUM COVER TO ALL REINFORCEMENT TO BE 40mm
- ADDITIONAL RISER PIECES TO BE USED AS DIRECTED BY THE ENGINEER'S REPRESENTATIVES
- A 12MM WIDE BREAKS ARE TO BE MADE ON CONCRETE BED COINCIDENT WITH PIPE JOINTS AND AT INTERVAL NOT MORE THAN 5M. THIS BREAK TO BE FILLED WITH FLEXCELL

PLAN
SCALE: NTS



RECTANGULAR MANHOLE DETAIL
SCALE: NTS

PROJECT: PROPOSED SEWER REHABILITATION @ KRA LANGATA	
DRAWING TITLE: TYPICAL DETAILS AND DRAINAGE NETWORK DATA	
CLIENT: KRA	
STRUCTURAL & CIVIL ENGINEERS: JKUATES P.O. BOX 62000-00100 NAIROBI.	
SCALE: AS SHOWN	DRAWN: K.M
DATE: JAN 2020	CHECKED: N.M
JOB NO.: S/101/19	DRG NO.: NM/KR/02
NOTES:	
1. ALL DIMENSIONS IN METRES & MILLIMETRES UNLESS OTHERWISE SHOWN	
2. ALL CONNECTIONS TO EXISTING SERVICES TO BE DONE TO RELEVANT AUTHORITIES APPROVAL APPROVAL	
3. THE COORDINATE PROJECTION IS THE ARC 1960 375 WITH UTM COORDINATES	
4. THE LEVELS ARE TIED TO THE NATIONAL GRID	