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When replying please quote: AWWDA/NaRSIP II/W-04/2021 PE-ao

10<sup>th</sup> May, 2021

To all Bidders:

NAIROBI RIVERS BASIN REHABILITATION AND RESTORATION PROGRAM: SEWERAGE IMPROVEMENT PROJECT PHASE II: LOT 4-CONSTRUCTION OF EAST AND WEST OF NAIROBI RETICULATION SEWERS ICB No: AWWDA/NaRSIP II/W-04/2021

#### REF: CLARIFICATIONS NO.2 TO THE ADVERTISED BID

Reference is made to the ongoing procurement of works for Lot 4-Construction of East and West of Nairobi Reticulation Sewers project. ICB NO: AWWDA/NARSIP II/W-04/2021.

Pursuant to clause No.27 of the Instructions to Bidders, please find attached responses to clarifications as received by AWWDA.

All bidders are further informed that the last date of submission of bids remains unchanged and The Bids must be submitted no later than 25<sup>th</sup> May 2021 **12.00 pm East African Time.** 

ENG.MICHAEL M. THUITA CHIEF EXECUTIVE OFFICER.



### PROGRAMME: NAIROBI RIVERS BASIN REHABILITATION AND RESTORATION PROGRAM -SEWERAGE IMPROVEMENT PROJECT, PHASE II

### CLARIFICATIONS NO.2 TO THE ADVERTISED BID FOR PROCUREMENT OF WORKS FOR LOT 4-CONSTRUCTION OF EAST AND WEST OF NAIROBI RETICULATION SEWERSPROJECT. ICB No: AWWDA/NaRSIP II/W-04/2021

	QUERY	AWWDA'S RESPONSE
1.	DRG. No. CWE20/E&W/GL/04 shows PROPOSED PARKLANDS RIVER TRUNK SEWER EXTENSION, However No Bills of Quantities are included in the Bid Document, kindly clarify.	Quote only for the specified Items provided for in the Bill of Quantities (BoQ)
2.	DRG. No. CWE20/E&W/GL/06 shows PROPOSED MIHANG'O TRUNK SEWER 1, PROPOSED MIHANG'O TRUNK SEWER 2, PROPOSED UTAWALA TRUNK SEWER and PROPOSED RUM TRUNK SEWER, However No Bills of Quantities are included in the Bid Document, kindly clarify.	Quote only for the specified Items provided for in the Bill of Quantities (BoQ)
3.	DRG. No. CWE20/E&W/GL/06 shows Mihang'o sewers, However No Bills of Quantities are included in the Bid Document, kindly clarify.	Quote only for the specified Items provided for in the Bill of Quantities (BoQ)
4.	There is no drawing/detail for Bill No. 13 HOUSEHOLD CONNECTIONS, please provide detail drawing to use for a Consumer Sewer Connection.	See annex 1 for the typical Household Connection drawing.
5.	There are no drawing/ detail for Bill NO.15 KAREN PONDS FENCING X.2 Masonry fencing, X.4 Security gate, please provide detail drawings	See annex 2 for the masonry fence drawing
6.	There are no drawing/ detail for BILL No.14 RUAKA INTESIFICATION SEWERS, please provide detail drawings.	Please refer to the Book of drawings on AWWDA Website
7.	Is Bill No.16 Item l0.x 91.1 and 10.x91.2 quoted independently by the contractor?	See Annex 3 for the revised Bill No. 16



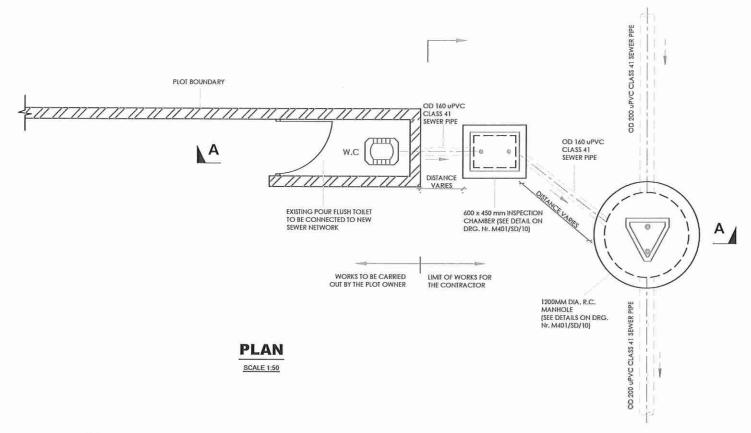


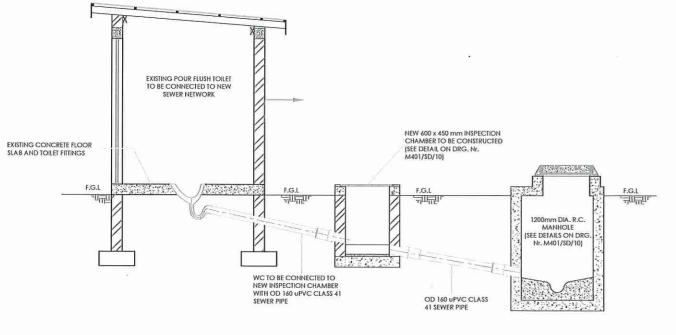


	QUERY	AWWDA'S RESPONSE
8.	Collection sheet for Bill No 13 (Pg 45 of BoQ)	See Annex 4 for the revised Bill No. 13 Collection sheet
9.	Is Item314 and 525 of Bill No.13B quoted by the contractor independently?	• Allow for a PC sum of Ksh. 1,000,000 for Bill Item No 13B-314
		<ul> <li>Allow for a PC sum of Ksh. 200,000 for Bill Item No 13B-525</li> </ul>
10.	Please provide detail drawings to use for BILL NO. 16 ACCESSORY	See annex 5 for the typical accessory site works
	SITE WORKS.	including drainage drawing
11.	Please provide detail drawings for Bill NO.15 X.8 Drainage	See annex 5 for the typical accessory site works
		including drainage drawing
12.	There are no drawing/ detail for BILL 13B-DRILLING AND EQUIPPING OF 1 NO. BOREHOLE 300M DEPTH, please provide detail drawings	See annex 6 for the Tentative Log for Borehole drawing
13.	Item I100 of Bill Bo.1 Kirichwa Dogo Trunk Sewer Extension requires 'supply of pipes Item I100 Pre-cast Concrete (PCC) Pipes with joining accessories Dia 450 mm ,QTY=30000m' Please clarify if we can use Double Wall Corrugated HDPE SN 4 Pipes with all joining accessories Dia 400 mm instead of PCC Pipes	Bidders are required to bid as per the specified items/materials in the Bill item.
14.	Bill No.14 Supply of Pipes- Item 100.4 requires 'supply of HDOE Spiral Pipes SN 4 Pipes with joining Dia 400 mm Qty=1,423 m'. We want to know if we can use HDPE DWC Pipes SN400 mm for this item.	Bidders are required to bid as per the specified items/materials in the Bill item.

## TYPICAL HOUSEHOLD CONNECTION DRAWING

### SEWER CONNECTION PLOT TO BE CONNECTED TO NEW SEWER NETWORK





WORKS TO BE CARRIED
OUT BY THE PLOT OWNER
LIMIT OF WORKS FOR
THE CONTRACTOR

#### **SECTION A - A**

SCALE 1:50

#### NOTES:

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
- DETAILS SHOWN ON THIS DRAWING ARE TYPICAL. EXACT ARRANGEMENT AND DIMENSIONS OF THE COMPONENTS TO BE DETERMINED BY THE ENGINEER ON A CASE-BY-CASE BASIS ON SITE

#### **ABBREVIATIONS**

F.G.L

SCOPE OF SEWER CONNECTION WORKS

1. CONSTRUCT NEW 450 X 600mm EXTERNAL INSPECTION CHAMBER (I.C.)

2. INSTALL OD160 uPVC CLASS 41 SEWER PIPE FROM EXISTING W.C. TO THE NEW PROPOSED I.C. AND FROM THE NEW PROPOSED I.C. TO NEARBY

- OUTSIDE DIAMETER

- FINISHED GROUND LEVEL

- DIAMETER

- UNPLASTICISED POLYVINYL CHLORIDE UPVC

- REINFORCED CONCRETE

w.c. - WATER CLOSET

- INSPECTION CHAMBER

- FINISHED FLOOR LEVEL

AS-BUILT DRAWINGS

	REVISIONS		SIGN	DATE	AFFROVED
		BY			
		CHECKED			
		BY			
ı		CHECKED			
		87			
ı		CHECKED		П	

CLIENT:



CHIEF EXECUTIVE OFFICER ATHI WATER WORKS DEVELOPMENT AGENCY P.O BOX 45283 - 00100 NAIROBI TEL: 020 - 2727438 FAX: 2724295

PROJECT TITLE:

NAIROBI RIVERS BASIN REHABILITATION PROGRAM NARSIP-2

CONTRACT No. AWWDA/NARSIP II/W-04/2021

CONSTRUCTION OF EAST AND WEST OF NAIROBI RETICULATION SEWERS

STANDARD DRAWINGS

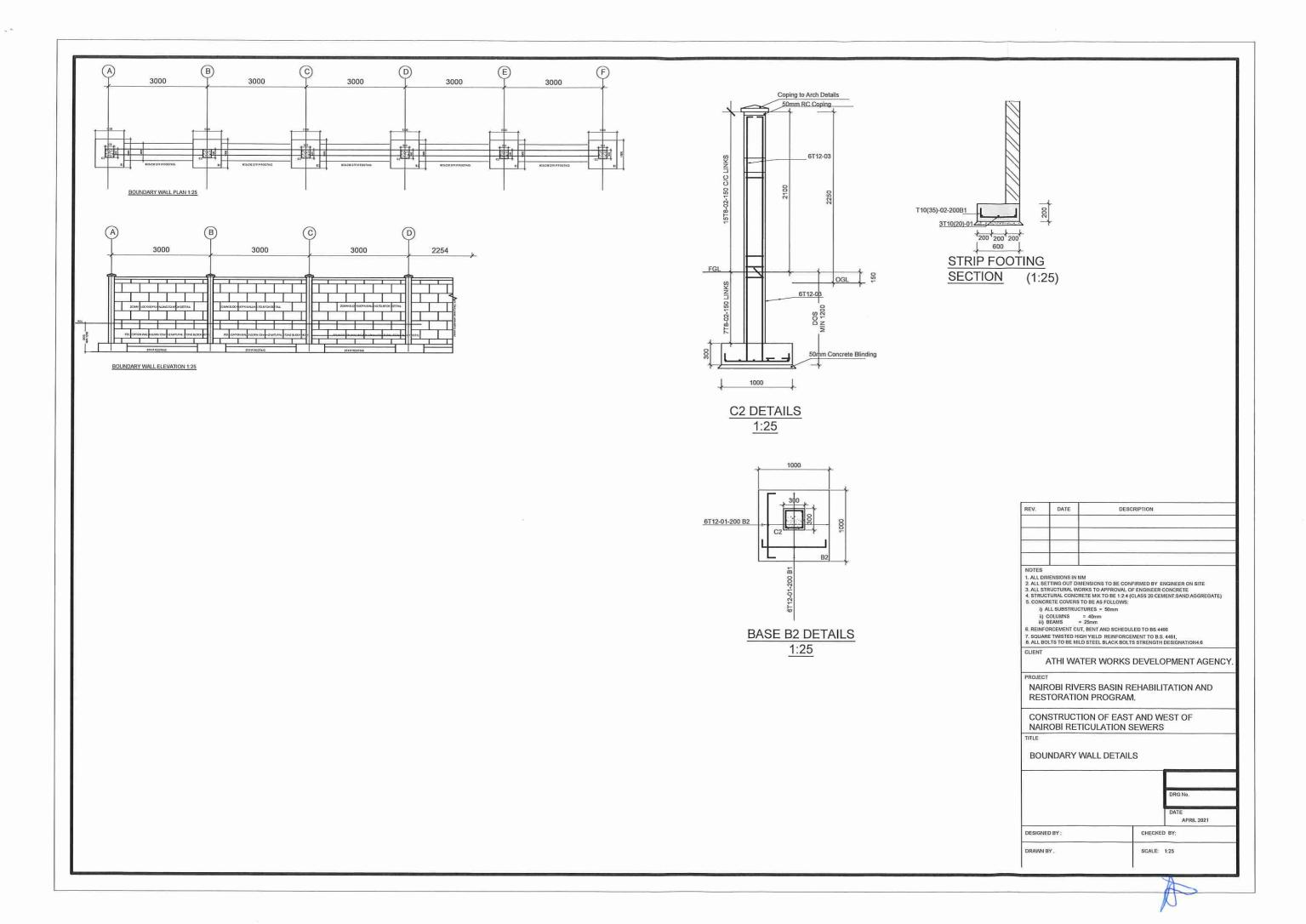
DRAWING TITLE:

TYPICAL SEWER CONNECTION DETAILS

DRG No.	REV			
Scale;	Date:			
Checked by:	Approved by:			
Designed by:	Drawn by:			



# BOUNDARY WALL/MASONRY FENCE DRAWING



**REVISED BILL No. 16** 

### BILL NO. 16: ACCESSORY SITE WORKS

Item No.	Description	Unit	Quantity	Rate (Ksh)	Amount (Kshs)
E636.2	Grassing of side slopes of the access road channels as directed by	m2	1,800		
	the engineer.		1,000		
	CLASS G: PRECAST CONCRETE				
H511.1	Provide, lay and joint 600x450x225mm invert block drains on both sides of acces road.	nr	1,000		
H511.2	Provide, lay and joint 600x225x75mm side slabs on both sides of	nr	1,000		
7.0.7.1.2	acces road channel, include for laying and jointing.	111	1,000		
	CLASS F: INSITU CONCRETE				
	Place, vibrate, and cure concrete in the following elemements of structures as per details in the drawings,,,				
G213	Mass concrete Class 20/20 on bas slabs; 150mm thick	m3	300	9.	
G213	Mass concrete Class 20/20 on headwallsand wing walls; 150mm thick	m3	300		
	and the second				Y
	CLASS G: CONCRETE ANCILLARIES Formwork				l.
G145	Rough finish; plane vertical sides of headwalls.	m2	100		
G243	Fair finish; plane vertical sides of headwalls and wing walls.	m2	100		
	Concrete Block Paved Roads				
	Sub-Base and Base Courses: Provide, Lay and Compact to required				
2002	relative density as per Clause 304 of Specifications: Hand packed hardcore compacted to CBR not less than 30 up to				
3.6	formation level (where road is in fill)	m2	1,800		
3.7	Base 200mm thick crusher run or quarry chips (hand packed), including for watering and stone dust blinding as directed.	m2	1,800		
3.8	200mm murram, include for watering and stone dust blinding as	m2	1,800		
	directed Provide and apply approved weed killer / herbicide to road surface				
3.9	in accordance with manufacturer's instructions	m2	1,800		
	Concrete Block Paving (as Manufactured by Bamburi Special Products Ltd. or Other Approved Supplier)				
3.10	Supply and lay Medium Duty Paving Blocks, 60mm thick, Minimum strength 37-41N/mm <sup>2</sup> laid on and including 50mm thick	m <sup>2</sup>	1,800		
3.10	sand bed and compacted by surface vibration	m	1,000		
4.00	Footpaths				
1100					
4.10	Provide and lay: 100mm murram sub-base, compacted to Engineer's approval	m <sup>2</sup>	1.000		
4.20	50mm thick concrete bed for footpath (Class 15)	m <sup>2</sup>	1,000 1,000		
			2,000		
10.X91.1	Allow PC sum for application to KPLC and electrical power installation	рс	1	1,000,000	
10.X91.2	Electrification of the Treatment Works. (including wiring and electrical fittings, 10Nr Compound Lighting using 10m light poles	item	-1	1,000,000	
101117112	and LED bulbs.)	HOIII	1	1,000,000	
10.X91.5	Contractors overhead on Items X91.1 and X91.4	%			
10.7171.3	TOTAL CARRIED TO GRAND SUMMARY	70			_

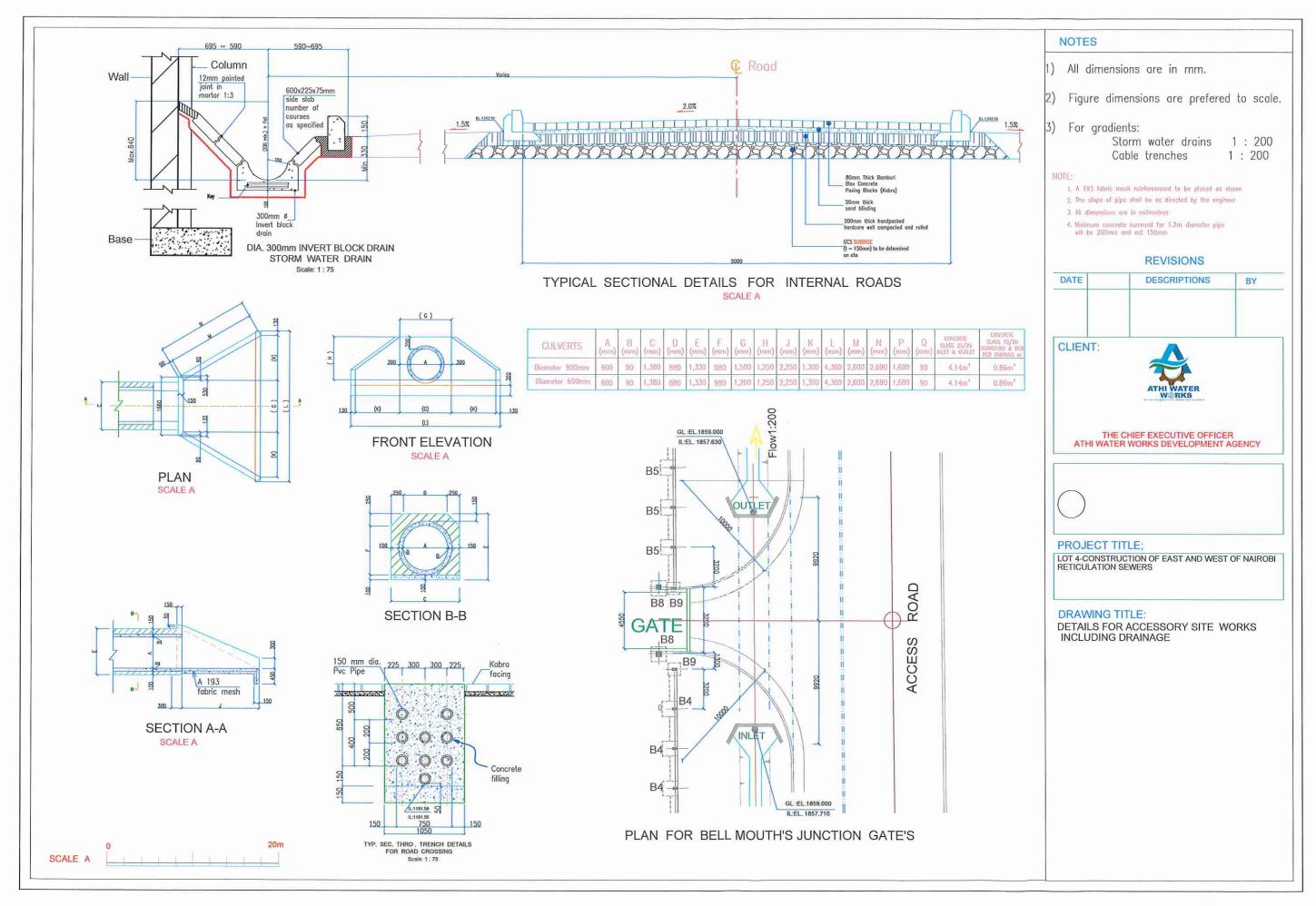
## REVISED BILL No. 13 COLLECTION SHEET

#### East and West of Nairobi Sewers

REVIS	SED BILL NO. 13 HOUSEHOLD CONNECTIONS COLLECTI	ON SH	EET		
Item No.	DESCRIPTION	Unit	Qty	Rate (KSh.)	Amount (KSh.
13 13B	TOTAL FOR HOUSEHOLD CONNECTIONS  TOTAL FOR DRILLING 5 NO BOREHOLES 10"				
	BILL 13 TOTAL CARRIED TO GRAND SUMMARY				ě



## TYPICAL ACCESSORY SITE WORKS INCLUDING DRAINAGE DRAWING





## TENTATIVE LOG FOR BOREHOLE DRAWING

Drawing No. 1 Tentative Log for Borehole

Donth	Borehole log	
Depth	Schéma	Drill
	To the state of th	maint 10 m
50		90 m
100		
Į.		
150		
200		
ľ		
300		300 m