

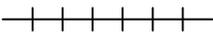
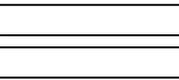
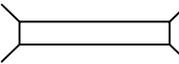
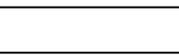
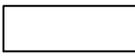
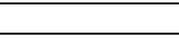
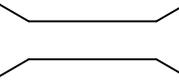
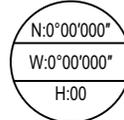
PROPOSED DESIGN DRAWING

FOR

Imara Daima<>Limuru MGR Rehabilitation (Satelite Station Section)

BAYOBAB KENYA		QUAVATEL LIMITED		DRAWING NAME: Imara Daima<>Limuru MGR Rehabilitation (Satelite Station Section)				
	APPROVED BY		COVER		DRAWN BY	KAWELU	DATE	05/09/2025
	DATE		CHECKED BY	HUDSON	DATE	05/09/2025		
			DRAWING NO.	Imara Daima<>Limuru MGR Rehabilitation (Satelite Station Section)				

FIBRE OPTIC CABLE LINE CONSTRUCTION DRAWING OF LEGEND

	PRIMARY LINK		Joint Location Marker Post		Pit
	SECONDARY LINK		Directional Marker Post		Pond/Swamp
	Railway		Drawing Connector		Fence
	Expressway		Culvert		Drainage
	Main Road		River		House
	Lane		Tree		Compass
	Bridge		Farm		Coodinate
	Filling Station		Eletric Transformer		Electrical Line
	Suburban Handhole		Bank Slope Protection		Bush
	Urban Manhole		Grass		
	Existing Manhole		Site		
	Mountain or Hill		Tower		

BAYOBAB KENYA		QUAVATEL LIMITED		DRAWING NAME: Imara Daima<->Limuru MGR Rehabilitation (Satellite Station Section)			
				LEGEND			
	APPROVED BY		CHECKED BY	DRAWN BY	KAWELU	DATE	05/09/2025
	DATE		DATE	CHECKED BY	HUDSON	DATE	05/09/2025
			DRAWING NO.	Imara Daima<->Limuru MGR Rehabilitation (Satellite Station Section)			

TRENCH AND BACKFILLING DIAGRAMS

1) STANDARD TRENCHING FOR NORMAL, HARD CLAY AND NON ERODED SOIL

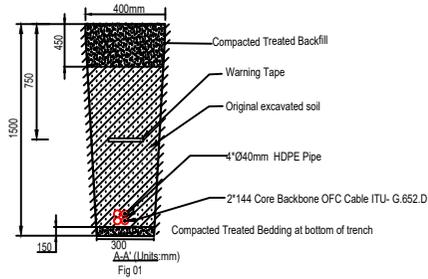


Fig 01

2) SPECIAL TRENCHING FOR SANDY, LOOSE SOIL

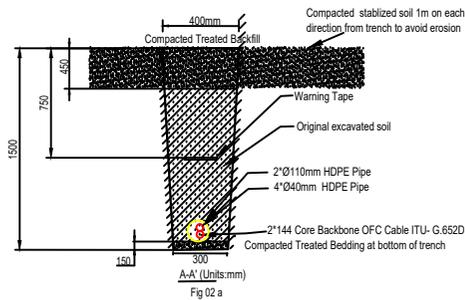


Fig 02 a

(b) Specification Main Road crossing

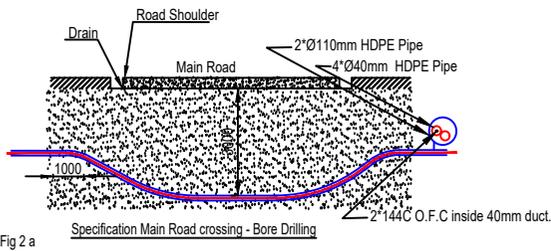
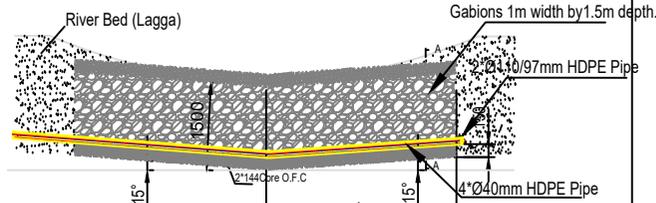


Fig 2 a

3. FIBER & CONDUIT GABION PROTECTION AGAINST EROSION



The approach gradient of the trench and cable into the river bed should not exceed 15 deg to avoid exposure by erosion

Fig 3

4) BRIDGE ATTACHMENT

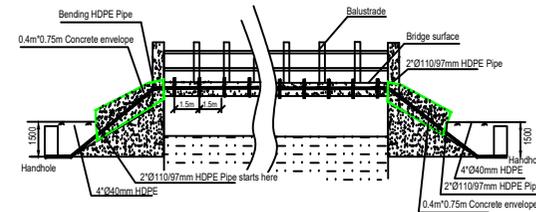


Fig 4

5) RAILWAY CROSSING

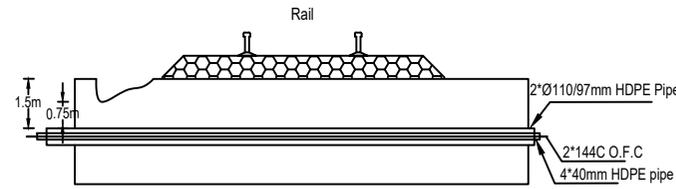


Fig 5

6) RIVER CROSSING BY DRILLING

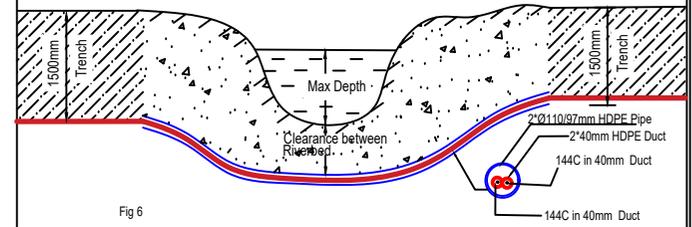


Fig 6

7) FIBER & CONDUIT PROTECTION ON ROAD CROSSINGS

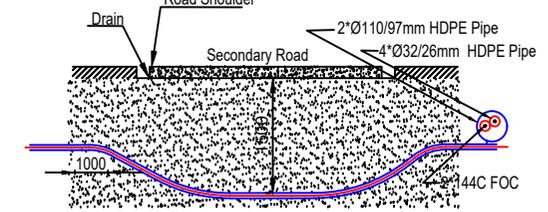


Fig 7

8) FIBER & CONDUIT PROTECTION ON ROCKY SECTIONS USING CONCRETE ENVELOPE

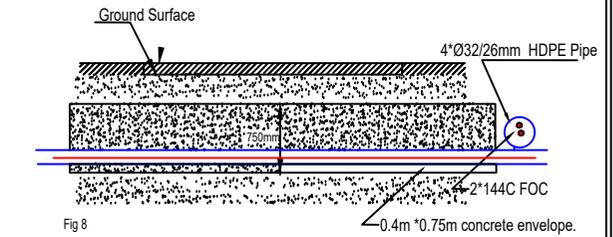


Fig 8

BAYOBAB KENYA



APPROVED BY

DATE

QUAVATELIMITED



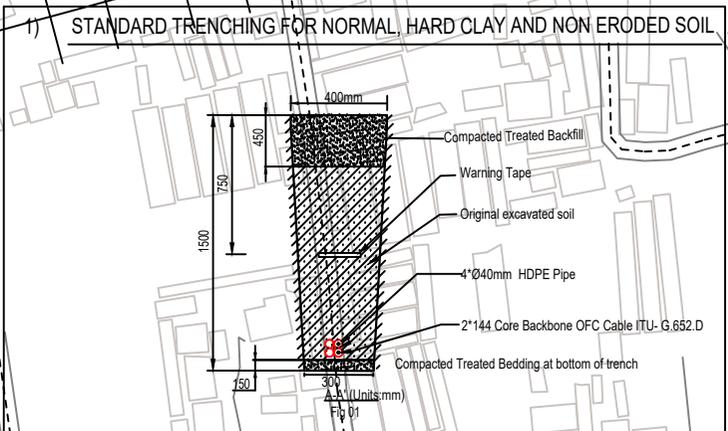
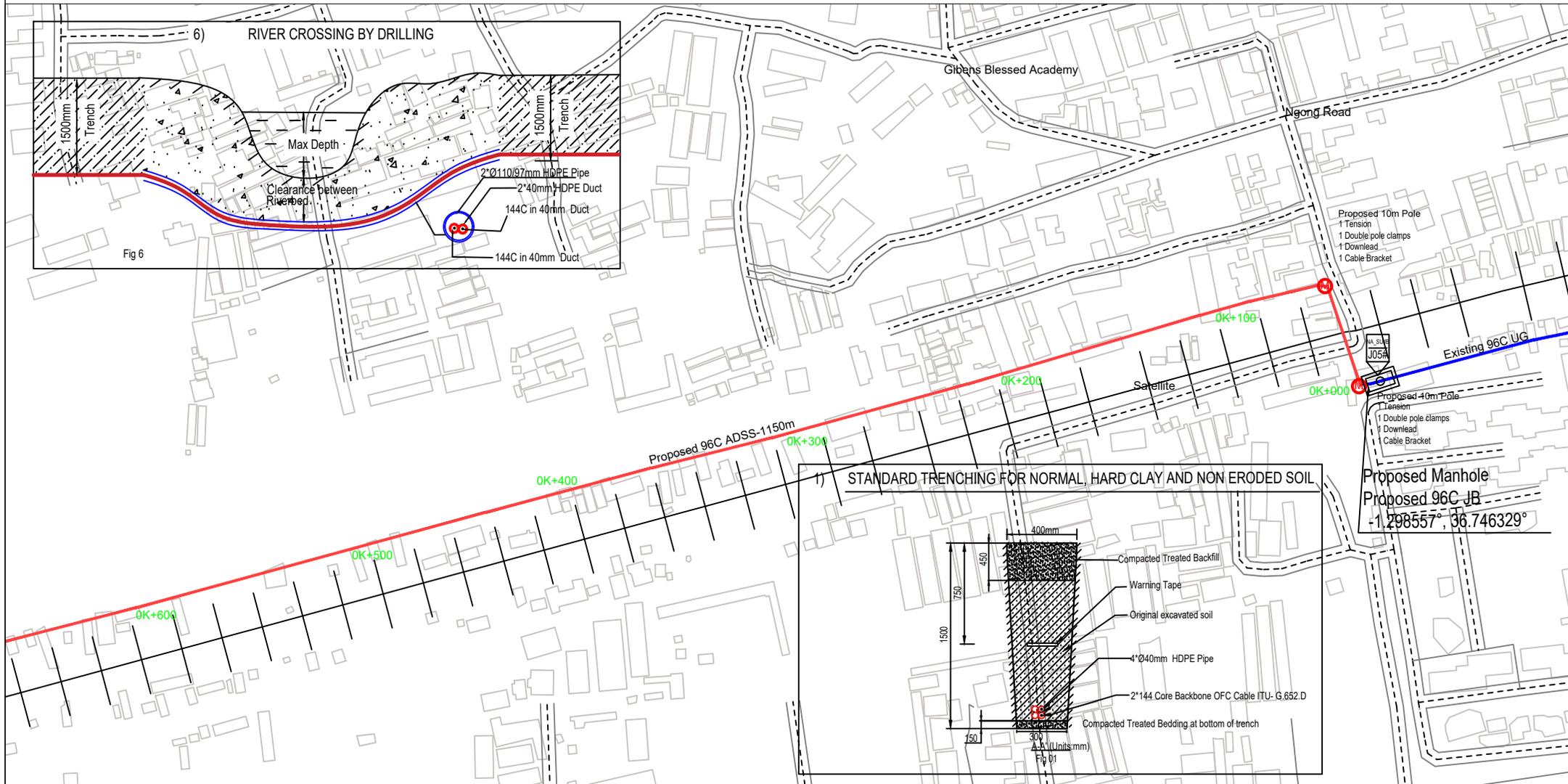
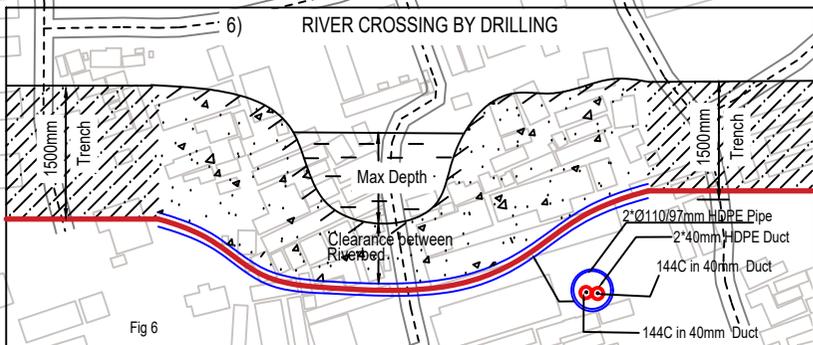
DRAWING NAME: Imara Daima<>Limuru MGR Rehabilitation (Satellite Station Section)

DIRECTIONAL MARKERS

DRAWN BY: KAWELU DATE: 05/09/2025

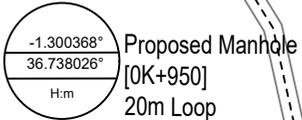
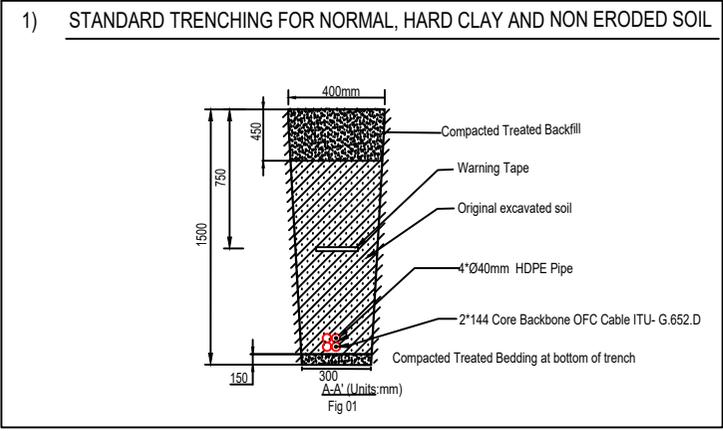
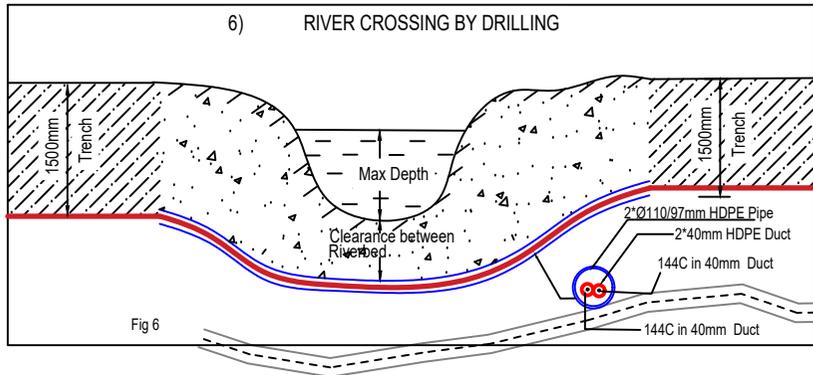
CHECKED BY: HUDSON DATE: 05/09/2025

DRAWING NO.: Imara Daima<>Limuru MGR Rehabilitation (Satellite Station Section)



MAIN WORKLOAD														Trunking 50x150.3m					
OFC (m)		HDPE pipe (m)				Concrete precast manhole (Pcs)	Reinforced Plastic Manhole (Pcs)	Joint Box (Pcs)	Warning tape (m)	Joint marker (Pcs)	Directional marker (Pcs)	Route survey (m)	Route cleaning (m)						
Blowing	Pulling	Φ40mm	6"Φ40/33	2"Φ32/26															
0	550	1800	0	0	0	1	0	450	0	1	450	0							
Road breaking & Reinstatement (m)							Excavation, Backfilling & Ramming (m)				Φ110mm HDPE pipe (m)			Slope protection (m)		Concrete envelop (m)			
Conc.road	Tarmac	Brick	Gravel	Conc.slabs	Slate	Tile	NS	HS	GS	SR	HR	Ramming	Road cutting	Thrustboring	Bridge crossing	30°sS45°	Gabions		
0	0	0	0	0	0	0	450	0	0	0	0	0	0	0	24	0	10	0	

BAYOBAB KENYA		QUAVATEL LIMITED		DRAWING NAME: Imara Daima<Limuru MGR Rehabilitation (Satellite Station Section)			
				DWG CHAINAGE [OK+000-OK+650]			
	APPROVED BY		CHECKED BY	DRAWN BY	KAWELU	DATE	05/09/2025
	DATE		DATE	CHECKED BY	HUDSON	DATE	05/09/2025
			DRAWING NO.	Imara Daima<Limuru MGR Rehabilitation (Satellite Station Section)			



Existing Joint

- Existing 10m Pole
- 1 Tension
 - 1 Double pole clamps
 - 1 Downlead
 - 1 Cable Bracket

Existing 96C ADSS

6m River crossing
Proposed 6m Concreting
-1.299668°, 36.740567°

6m River crossing
Proposed 6m Concreting
-1.300209°, 36.738655°

30m swampy area
Proposed 30m Concreting
-1.299812°, 36.740000°

8m Road Cutting
10m 110mm HDPE Duct
-1.300209°, 36.738655°

MAIN WORKLOAD														Trunking 50x150.3m					
OFC (m)		HDPE pipe (m)				Concrete precast manhole (Pcs)	Reinforced Plastic Manhole (Pcs)	Joint Box (Pcs)	Warning tape (m)	Joint marker (Pcs)	Directional marker (Pcs)	Route survey (m)	Route cleaning (m)						
Blowing	Pulling	Φ40mm	6"Φ40/33	2"Φ32/26															
0	450	1800	0	0	0	0	0	450	0	0	450	0							
Road breaking & Reinstatement (m)							Excavation, Backfilling & Ramming (m)					Φ110mm HDPE pipe (m)		Slope protection (m)		Concrete envelop (m)			
Conc.road	Tarmac	Brick	Gravel	Conc.slabs	Slate	Tile	NS	HS	GS	SR	HR	Ramming	Road cutting	Thrustboring	Bridge crossing	30°≤S≤45°	S>45°		
0	0	0	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0

BAYOBAB KENYA		QUAVATEL LIMITED		DRAWING NAME: Imara Daima<->Limuru MGR Rehabilitation (Satelite Station Section)			
				DWG CHAINAGE [OK+650-OK+960]			
APPROVED BY		CHECKED BY		DRAWN BY	KAWELU	DATE	05/09/2025
DATE		DATE		CHECKED BY	HUDSON	DATE	05/09/2025
bayobab		Quava-tel		DRAWING NO.			Imara Daima<->Limuru MGR Rehabilitation (Satelite Station Section)