

# UJ - IMBEWU RESIDENTIAL STORMWATER

IMBEWU RESIDENCE

SCHEDULE OF STORMWATER SERVICES QUANTITIES

ENGINEERS ESTIMATE

SEPTEMBER 2022

ENGINEER'S COST ESTIMATE

Version Rev\_A

Prepared by:



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**NOTE:**

The following general conditions and standard specifications apply:

- (1) General Conditions of Contract Series 2000 Minor Works Agreement
- (2) SABS 1200 - Standardized Specification for Civil Engineering Construction

### SECTION 3: STORMWATER DRAINAGE

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1	SABS 1200 C	CLEARING				
3.1.1		Clear the route along the route of the stormwater channel at the back of the residence	m <sup>2</sup>	530		
3.1.2		Remove the existing paving along the route of the stormwater channel and make good	m <sup>2</sup>	360		
3.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	PSDB 8.3.2	Excavation:				
	PSDB 5.6.3	Excavate in all materials for trenches, backfill, compact, supply and operate dewatering equipment, surface and sub surface water control in all open excavations and dispose of surplus material:				
		Concrete stormwater channels (1500mm wide trench) for the following depths:				
3.2.1		(i) 0.0m - 0.5m	m <sup>3</sup>	265		
3.2.2		(ii) 0.5m - 1.0m	m <sup>3</sup>	0		
		160mm diameter uPVCstormwater pipe for the following depths:				
3.2.3		(i) 0.0m - 0.5m	m <sup>3</sup>	10		
3.2.4		(ii) 0.5m - 1.0m	m <sup>3</sup>	0		
		Extra over items 3.2.1 and 3.2.2				
3.2.5		(i) Intermediate excavation	m <sup>3</sup>	66		
3.2.6		(ii) Hard excavation	m <sup>3</sup>	27		
	PSDB 8.3.3.1	Make up in backfill (provisional)				
3.2.7		Import from commercial source a G7 quality material and compact in trench in layers 150mm thick to Minimum of 90% Modified AASHTO density.	m <sup>3</sup>	265		
	PSDB 8.3.8	Treatment of trench base preparation and compaction of material to a Minimum of 93% of Modified AASHTO maximum density to a depth of 150mm				
3.2.8		(i) in all stormwater trenches	m <sup>2</sup>	540		
	PSDB 8.3.2	Excavation:				
	PSDB 5.6.3	Excavate in all materials for manholes and grid inlets , backfilling, carting away, risk of collapsing, shoring, dewatering, concrete blinding, formwork, surface and sub surface water control in all open excavations and dispose of surplus material:				
3.2.9		(i) 0.0m - 1.0m	m <sup>3</sup>	75		
		Extra over items 3.2.10;				
3.2.10		(i) Intermediate excavation	m <sup>3</sup>	19		
3.2.11		(ii) Hard excavation	m <sup>3</sup>	8		
3.3	SANS 1200 LB	CONCRETE CHANNEL				
	8.2.1	Surface preparation for bedding of Channel				
3.3.1		i) Cavities under all the V-shape stormwater drains discharges areas to be filled with approved excavated material from stockpile and compacted in 150mm thick layers to to 93% Mod AASHTO.	m <sup>3</sup>	265		
	8.2.2	Stormwater Concrete Channels				
3.3.2		i) 1500mm wide concrete channel as per detailed drawing	m	160		
3.3.3		ii) Aco Channel as per detailed drawings	m	160		
3.3.3		ii) Precast concrete channel as per the detailed drawing	m	40		
<b>TOTAL CARRIED FORWARD</b>						

### SECTION 3: STORMWATER DRAINAGE

[illegible]

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SCHEDULE OF STORMWATER SERVICES QUANTITIES

SUMMARY OF SCHEDULE OF QUANTITIES

Section 1: Preliminary and General R .....

Section 3: Stormwater Drainage R .....

**SUB TOTAL 1 (Sum Of Sections 1 to 6 Above)** R .....

**CONTINGENCIES**

The sum provided here is under the sole control of the UJ under the advisement of the Engineer and may be deducted in whole or in part. (The contractor must add 10% of Sub Total 1) R .....

**SUB TOTAL 2** R .....

**CONTRACT PRICE ADJUSTMENT**

CPA of 7.5% R .....

**SUB TOTAL 3** R .....

**VALUE ADDED TAX**

The Contractor shall add 15% of Sub Total 3 for VAT R .....

**TOTAL AMOUNT** R .....