

**STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK
PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77**

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STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77

BILL OF QUANTITIES

SECTION 1 PRELIMINARIES

PART AA PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	GCC 2015	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA	sum	1		
		Fixed Charge obligations				
2	GCC 2015	Time Related obligations	sum	1		
3	C1.2.3.1	COMMUNITY LIAISON OFFICER	PC Sum	81600	1.00	81,600.00
		Allow for a CLO to be appointed.				
4	C1.2.3.1	% Mark-up for item 5 above	%	81600		
5	C1.2.3.2	LOCAL LABOUR	sum	1		
		Allow for the weekly submission of proof of employment of local labour				

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES

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PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.4	Contractor's Camp Site / Store Yard	sum	1		
2	AB.5	Notice Board	sum	1		
3	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
4	PS.AB.6	Deduction for re-tests requested when density and cube tests is not as per specification as determined by Acceptance Testing (-R 1000.00/set)	set	0		
5	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
6	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
7	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
8	PS.AB.7	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		

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Part Continued PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	PS.AB.8	Allow for the following Additional Items which the tenderer requires to be priced separately :- a)	sum	1		
10	PS.11	Provision of site security	sum	1		
11	PS.2.5	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
12	PS.14	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
13	PS.3.4	Watermain Stabilisation	sum	1		
14	PS.4.2	Sewer line stabilisation and Supporting Structure Over line	sum	1		
15	PS.1.3.3	Safety officer	sum	1		
16	C.1.2.3.6	Expected Risks: Establishment	sum	1		
17	C.1.2.3.6	Expected Risks: De-establishment	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES

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PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1 - PS.10	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2 - PS.10	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3 - PS.10	Submission of the Health and Safety File including Covid-19 Requirements	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES

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SECTION 2 STORMWATER INFRASTRUCTURE

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing within a servitude	m2	2500		
2	B.8.9	Removal of brickwork	m3	70		
3	B.8.10	Removal of unreinforced concrete	m3	35		
4	B.8.14	Removal of roadways to tip	m3	70		
5	B.8.15	Removal of concrete paving to tip	m3	35		
6	B.8.19	Removal of disused pipes, 600 mm diameter and spoil at tip. Rate to include all haulage	m	40		
7	B.8.20	Seal ends of pipes with grade 15/26 concrete	m3	7		
8	PS.B.8.23	Break up, demolition and removal of existing manhole to tip and store manhole covers on site for re-use. Depth: - - Over 0,0 m and not exceeding 1,5 m	no.	5		
9	B.8.16	Removal of kerb and channel to tip	m	80		
10	B.8.4	Removal of tree shrubs	no.	15		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

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PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1/PS.C.9.4	Grade 15/19 concrete blinding of thickness 75 mm	m3	40		
2	C.8.1/PS.C.8.1 1	Grade 15/19 concrete in soft spots (provisional)	m3	50		
3	C.8.1/PS.C.8.7	Grade 35/19 concrete in walls	m3	70		
4	C.8.2/PS.C.8.4	High tensile steel reinforcement	t	4		
5	C.8.2/PS.C.8.4	Mild steel reinforcement	t	0.3		
6	C.5.14/PS.8.5	Class 2 shuttering to visible surfaces-vertical shutter	m2	200		
7	C.8.3/PS.C.8.9	Class 1 shuttering to construction joints in walls and floor slabs, every 7 m, and stop ends	m2	10		
8	C.8.3/PS.C.8.9	Class 1 shuttering to concealed surfaces	m2	200		

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Part Continued **PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	PS.C.8.14	Supply and install 250 wide x 0.250 Upvc strips.	m	20		
10	PS.C.8.15	Bitumen impregnated softboard in expansion joints	m2	10		
11	PS.C.8.16	Construct 50 mm dia. P.V.C weepholes	no.	50		
12	PS.C.8.17	Supply and install Polysuphide/Polyruthane sealant in to construction joints	m	5		
13	PS.C.8.8	Concrete curing and protection	sum	1		
14	C.8.2/PS.C.8.7	Construct Debris Wall. Rate to include Grade 35/19 concrete and shuttering. Reinforcement included in item 4 and 5	sum	1		
15	C.8.2/PS.C.8.4	High tensile steel fabric reinforcement ref : 617 to walls and floor slabs	t	9		
16	PS.C.8.12	Drainage strips - 300 mm wide Macdrain W 105M (or similar approved) drainage strips covered with grade B geofabric	m	50		
17	PS.C.8.13	Perforated drainage pipes, 65 mm dia., wrapped in grade B geofabric (including forming 200x75mm concrete mortar bed)	m	50		
18	PS.C.8.17	Polythelene sheeting 250 micron under approach slabs	m2	110		
19	C5.4.4/PS.C.8.5.1	Class 3 concrete upper surface finish (wood float) to canal floor slabs	m2	150		
20	C.8.1/PS.C.8.7	Grade 35/19 concrete in floor slabs	m3	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

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PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2	Excavate topsoil and spoil at tip	m3	150		
2	DA.8.3	Excavate soft material to spoil	m3	250		
3	DA.8.3	Extra over above for the excavation of intermediate material to spoil	m3	20		
4	DA.8.3	Extra over above for excavation of hard material to spoil	m3	20		
5	DA.8.3	Extra over above for the excavation of boulders greater than 0,15 m3 to spoil	m3	10		

STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77

Part Continued **PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
6	PS.DA.8.11	Import suitable fill material from contractor's off-site source inclusive of haulage and royalties	m3	380		
7	DA.8.5	Compact imported fill material to 95% Mod. A.A.S.H.T.O.	m3	380		
8	DA.8.6	Trimming of embankments	m2	410		
9	PS.DA.8.12	Supply and place general grade geofabric	m2	380		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

R

PART DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.5	Excavate and backfill in all material for 600 mm diameter pipe where depth is :- Over 0,0 m and not exceeding 1,5 m	m	150		
2	DB.8.6	Extra over item 1 for hard material	m3	3		
3	DB.8.6	Extra over item 1 for rock	m3	3		
4	DB.8.10	Placing and compacting of Class B bedding for 600 mm diameter pipe	m	150		
5	DB.8.13	Provision of selected backfill material for pipe trenches from commercial or off-site source	m3	265		
6	PS.DB.8.21	Backfill and compact backfill material to 95% Mod. A.A.S.H.T.O.	m3	265		
7	DB.8.9	Provision of selected fill for pipe bedding from a commercial or off-site source	m3	60		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

R

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2/PS.DD.8.6/8.7/8.8/8.9/8.11	Excavate in all material for culvert to stockpile	m3	990		
2	DD.8.2/PS.DD.8.6/8.7/8.8/8.9/8.11	Excavate in all material for culvert to spoil	m3	900		
3	DD.8.2/PS.DD.8.2/PS.DD.8.6/8.7/8.8/8.9/8.11	Extra over item 1 - 2 for hard material	m3	75		
4	DD.8.2/PS.DD.8.2/PS.DD.8.6/8.7/8.8/8.9/8.11	Extra over item 1 - 2 for rock	m3	75		

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Part Continued PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
5	DD8.2/PS.DD.8.2/PS.DD.8.6/8.7/8.9/8.11	Extra over item 1 - 2 for intermediate material	m3	90		
6	DD.8.3/PS.DD.8.9	Backfill and compact using material from stockpile	m3	400		
7	PS.16 / PS.DD.8.8/8.14	Temporal stream diversion and maintenance of diversion throughout the project. Cofferdamming and dewatering	sum	1		
8	PS.DD.8.9	Backfill and compact using imported material (G7) from contractor's own source. Rate to include all haulage and royalties.	m3	1900		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE
R
PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	ED.8.4	Tack coat	m2	25		
2	PS.ED.8.5	Saw Cut existing road edge	m	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE
R
PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Type C mountable kerb and channel	m	150		
2	EF.8.1	Scoop kerb and channel (Type C - mountable) including transition kerb	m	10		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE
R
PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EG.8.1 EG187.7 EG1567	Asphalt sidewalk 25mm, 150 mm sub base - Asphalt Private Plant	m2	150		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE
R
PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling from stockpile: thickness 100 mm	m2	500		
2	F.8.1	Imported topsoil: thickness 100 mm	m2	1000		
3	F.8.3	Grass planting	m2	1500		

STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77

Part Continued **PART F PROTECTION WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
4	F.8.6	Gabion boxes : 500 mm depth	m3	40		
5	F.8.6	Gabion boxes : 1000 mm depth	m3	200		
6	F.8.6	Gabion mattresses, 300 mm thick	m3	90		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	Supply and lay 600 mm diameter concrete Class 100D	m	150		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

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PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PH.8.2	Manhole type A with inlet type cover S2. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	4		
2	PS.PH.8.10	Construct standard outlet headwall as per drawing no. 38576	no.	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: STORMWATER INFRASTRUCTURE

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STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77**SECTION 3 REINSTATEMENT****PART S REINSTATEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.1	Reinstatement of ground surface	m2	340		
2	S.8.2	Permanent road reinstatement 150 mm sub base 50 mm Asphalt - Asphalt Private Plant	m2	50		
3	S.8.2	Reinstatement of asphalt paving 25mm	m2	25		
4	S.8.2	Reinstatement of concrete paving	m2	25		

TOTAL CARRIED TO SECTION 3 SUMMARY: REINSTATEMENT**R**

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 PRELIMINARIES

PART	AA	PRELIMINARIES	
PART	AB	GENERAL SPECIFICATIONS	
PART	AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY**SECTION 2 STORMWATER INFRASTRUCTURE**

PART B	SITE CLEARANCE	
PART C	CONCRETE WORK	
PART DA	EARTHWORKS : BULK	
PART DB	EARTHWORKS FOR PIPE TRENCHES	
PART DD	EARTHWORKS FOR STRUCTURES	
PART ED	ROAD ASPHALT	
PART EF	KERBS AND HAUNCHES	
PART EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	
PART F	PROTECTION WORKS	
PART PG	NON PRESSURE PIPELINES and PC CULVERTS	
PART PH	MANHOLES and APPURTENANT DRAINAGE WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

1D 35030

STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT
AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77

PRICING DATA

BILL OF QUANTITIES SECTION SUMMARY

SECTION 3 REINSTATEMENT

PART S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

STORMWATER SYSTEM RESUSCITATION-CONSTRUCTION OF A CONCRETE CULVERT AND BANK PROTECTION AT 26 KINGFISHER DRIVE, WELBEDACHT EAST: WARD NO. 77

SUMMARY OF BILL OF QUANTITIES

1	PRELIMINARIES		R	
AA	PRELIMINARIES	R		
AB	GENERAL SPECIFICATIONS	R		
AH	OCCUPATIONAL HEALTH and SAFETY	R		
2	STORMWATER INFRASTRUCTURE		R	
B	SITE CLEARANCE	R		
C	CONCRETE WORK	R		
DA	EARTHWORKS : BULK	R		
DB	EARTHWORKS FOR PIPE TRENCHES	R		
DD	EARTHWORKS FOR STRUCTURES	R		
ED	ROAD ASPHALT	R		
EF	KERBS AND HAUNCHES	R		
EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		
F	PROTECTION WORKS	R		
PG	NON PRESSURE PIPELINES and PC CULVERTS	R		
PH	MANHOLES and APPURTENANT DRAINAGE WORKS	R		
3	REINSTATEMENT		R	
S	REINSTATEMENT	R		
SUB TOTAL				R
ADD VAT (15%) - (only if a registered VAT Vendor)				R
TOTAL CARRIED TO FORM OF TENDER				R

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