

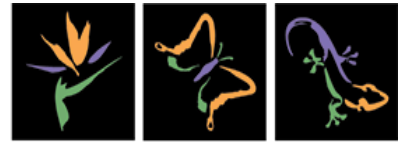


ENGINEERING  
PROCUREMENT  
MANAGEMENT

**SANBI**

Biodiversity for Life

South African National Biodiversity Institute



## **SANBI PROJECTS (NZG, MBC & TBG)**

**SITE NAME: THOHOYANDOU BOTANICAL  
GARDEN**

**PROJECT NUMBER: 34398.01**

**PROJECT NAME: NEW ABLUTION BLOCK**

### **SANITARY SCHEDULE**

**34398-01-611-01-02**

**REV. B**

**17 September 2021**

#### **APPROVALS:**

| NAME          | ROLE                        | DATE       | SIGNATURE                                                                             |
|---------------|-----------------------------|------------|---------------------------------------------------------------------------------------|
|               | Program Manager             |            |                                                                                       |
|               | Project Manager             |            |                                                                                       |
|               | Engineering Manager         |            |                                                                                       |
| Desmond Brand | Principle Agent & Architect | 17/09/2021 |  |



## 1. NEW ABLUTION BLOCK

### 1.1 GENERAL

New ablution block to be provided with new sanitary fittings and fixtures.

New ablution block to be provided with new potable water supply and internal reticulation.

New ablution block to be provided with new internal and external soil and waste water reticulation.

Potable Water – refer Civil Engineers drawing and specification.

Soil and Waste Water – refer Civil Engineers drawing and specification.

Electrical – refer Electrical Engineers drawing and specification.

### 1.2 SERVICES

WC's:

- Soil water – 110 mm diameter Upvc soil pipe connections complete with access eyes.
- Water - new cold-water points to be provided.

Urinal:

- Soil water – new 75 mm diam. uPVC soil pipe connection to be provided with access eyes.
- Water - new cold-water points to be provided.

Basins:

- Waste water – new 50 mm diam. uPVC waste pipe connections to be provided with access eyes.
- Water - new cold and hot water points to be provided.

### 1.3 MALE ABLUTION

#### 1.3.1 WC:

**1.3.1.1 WC:**

Vaal or similar approved Daisy close coupled vitreous china wc suite, product code 772403 supplied complete with 9 litre cistern, product code 7116SC with single front flush mechanism with all fittings required to the cistern inlet, flushing system with lid.

Toilet seat - wooden double flap toilet seat.

Colour – standard White.

**1.3.1.2 Angle Regulating Valve:**

Cobra Watertech or similar approved angle regulating valves, code 832/350F with sliding flange. Finish – Chrome Plated. Cold water only.

**1.3.1.3 Toilet Paper Holder:**

Bidvest/Steiner or similar approved standard three roll toilet paper holder with lockable central shaft.

Product code – SKU Toilet Paper Holder - 3

Finish – Stainless Steel.

Toilet paper holder to be fixed to the wall, position to be confirmed on site by the Architects. Provide (x1) per WC.

**1.3.2 URINAL:****1.3.2.1 Urinal:**

Vaal or similar approved Lavatera top entry wall hung urinal, code 705426

Colour – standard White.

Urinal to be supplied complete with 38 mm chrome plated domical grating, top inlet spreader and wall hanger brackets.

Provide white silicone sealant between urinal perimeter and wall tiles.

**1.3.2.2 Flush Valve:**

Cobra Watertech or similar approved FJ6000 Flushmaster with sliding wall flange with FJT 5.5 flush pipe. Finish – Chrome Plated.

**1.3.2.3 Trap:**

Cobra urinal bottle trap waste. Finish – Chrome Plated supplied complete with all fittings.

**1.3.3 BASIN:****1.3.3.1 Basin:**

Vaal or similar approved Concorde drop in basin. Code – 702704WH.

Basin to be supplied complete with three semi punched tapholes.

Colour – standard White.

Refer Architects detail for vanity top.

Provide silicone sealant between basin perimeter and vanity top when placing the basin in position.

**1.3.3.2 Mixer Tap:**

Cobra Watertech or similar approved, product code 294CA Carina one tap hole basin mixer with aerated outlet with inlets for flexible

tubing. Finish – Chrome.

**1.3.3.3 Angle Regulating Valves:**

Cobra Watertech or similar approved (located under vanity) angle regulating valves, code 832-10 with slid. Finish – Chrome Plated. Cold – Right.

**1.3.3.4 Inlet Tubing:**

Cobra Watertech or similar approved braided flexible inlet tubing, Blue and Red

**1.3.3.5 Waste:**

Cobra Watertech or similar approved slotted sink waste, chrome – code 308 supplied complete with plug, flange, shank, male outlet connection and back nut.

**1.3.3.6 Bottle Trap:**

Cobra Watertech or similar approved bottle trap, code 350 with chrome



plated finish.

#### **1.3.3.7 Soap Dispenser:**

Bidvest Steiner or similar approved liquid soap dispenser.

Code SKU Liquid Dispenser – 4.

Finish - Stainless Steel.

Soap dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.3.3.8 Towel dispenser:**

Bidvest Steiner or similar approved paper towel (multi fold) dispenser.

Code SKU paper towel cabinet multifold – 4.

Finish - Stainless Steel.

Paper towel dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.3.3.9 Waste Bin:**

Bidvest Steiner or similar approved wall bin.

Code SKU wall bin – 4.

Finish - Stainless Steel.

Wall bin to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.3.3.10 Mirror:**

600 mm wide x 1 100 mm high x 6 mm thick mirror with polished edges fixed to wall above basins with (x4) chrome plated capped mirror screws.

Provide (x1) mirror per basin.

#### **1.3.3.11 Hand Dryer:**

To be confirmed.



## 1.4 FEMALE ABLUTION

### 1.4.1 WC:

#### 1.4.1.1 WC:

Vaal or similar approved Daisy close coupled vitreous china wc suite, product code 772403 supplied complete with 9 litre cistern, product code 7116SC with single front flush mechanism with all fittings required to the cistern inlet, flushing system with lid.

Toilet seat - wooden double flap toilet seat.

Colour – standard White.

#### 1.4.1.2 Angle Regulating Valve:

Cobra Watertech or similar approved angle regulating valves, code 832/350F with sliding flange. Finish – Chrome Plated. Cold water only.

#### 1.4.1.3 Toilet Paper Holder:

Bidvest/Steiner or similar approved standard three roll toilet paper holder with lockable central shaft.

Product code – SKU Toilet Paper Holder - 3

Finish – Stainless Steel.

Toilet paper holder to be fixed to the wall, position to be confirmed on site by the Architects. Provide (x1) per WC.

#### 1.4.1.4 She Bin:

Bidvest/Steiner or similar approved she bin.

Product code – SKU She Bin Aluminium.

She bin to be fixed to the wall, position to be confirmed on site by the Architects. Provide (x1) per WC.

### 1.4.2 BASIN:

#### 1.4.2.1 Basin:

Vaal or similar approved Concorde drop in basin. Code – 702704WH.



Basin to be supplied complete with three semi punched tapholes.

Colour – standard White.

Refer Architects detail for vanity top.

Provide silicone sealant between basin perimeter and vanity top when placing the basin in position.

#### **1.4.2.2 Mixer Tap:**

Cobra Watertech or similar approved, product code 294CA Carina one tap hole basin mixer with aerated outlet with inlets for flexible tubing.

Finish – Chrome.

#### **1.4.2.3 Angle Regulating Valves:**

Cobra Watertech or similar approved (located under vanity) angle regulating valves, code 832-10 with slid. Finish – Chrome Plated. Cold – Right.

#### **1.4.2.4 Inlet Tubing:**

Cobra Watertech or similar approved braided flexible inlet tubing, Blue and Red

#### **1.4.2.5 Waste:**

Cobra Watertech or similar approved slotted sink waste, chrome – code 308 supplied complete with plug, flange, shank, male outlet connection and back nut.

#### **1.4.2.6 Bottle Trap:**

Cobra Watertech or similar approved bottle trap code 350 with chrome plated finish.

#### **1.4.2.7 Soap Dispenser:**

Bidvest Steiner or similar approved liquid soap dispenser.

Code SKU Liquid Dispenser – 4.

Finish - Stainless Steel.

Soap dispenser to be fixed to the wall. Position to be confirmed by the



Architects on site. Provide (x1) per bathroom.

#### **1.4.2.8 Towel dispenser:**

Bidvest Steiner or similar approved paper towel (multi fold) dispenser.

Code SKU paper towel cabinet multifold – 4.

Finish - Stainless Steel.

Paper towel dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.4.2.9 Waste Bin:**

Bidvest Steiner or similar approved wall bin.

Code SKU wall bin – 4.

Finish - Stainless Steel.

Wall bin to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.4.2.10 Mirror:**

600 mm wide x 1 100 mm high x 6 mm thick mirror with polished edges fixed to wall above basins with (x4) chrome plated capped mirror screws.

Provide (x1) mirror per basin.

#### **1.4.2.11 Hand Dryer:**

To be confirmed.

### **1.5 DISABLED ABLUTION**

#### **1.5.1 WC:**

##### **1.5.1.1 WC:**

Vaal or similar approved Protea paraplegic low level suite. Product code 730103WH supplied complete with matching cistern, disabled user side flush mechanism and all fittings required to the inlet cistern with purpose made thermoset seat with cover, COB - 8515Z100

Colour – standard White.

**1.5.1.2 Angle Regulating Valves:**

Cobra Watertech or similar approved angle regulating valves, code 832/350F with sliding flange. Finish – Chrome Plated. Cold water only.

**1.5.1.3 Toilet Paper Holder:**

Bidvest/Steiner or similar approved standard three roll toilet paper holder with lockable central shaft.

Product code – SKU Toilet Paper Holder - 3

Finish – Stainless Steel.

Toilet paper holder to be fixed to the wall, position to be confirmed on site by the Architects. Provide (x1) per WC.

**1.5.1.4 Grab Rails:**

Standard Aluminium grab rails fixed to wall with chemical anchor bolts.

Side grab rail code – 8939Z000.

Cistern grab rail code – 8940Z000.

Finish – Natural anodized aluminium.

**1.5.2 BASIN:****1.5.2.1 Basin:**

Cobra or similar approved Welcome wall hung basin. Code – CWLBAWH1-6DT01.

Basin to be supplied complete with three semi punched tapholes with integrated overflow.

Basin to be bolted to the wall.

Semi pedestal White code CWLPERD2-6DT01.

Colour – standard White.

Provide silicone sealant between basin perimeter and vanity top when placing the basin in position.

**1.5.2.2 Taps:**



Cobra Watertech or similar approved elbow action taps with high waist pillar, hot and cold-water indices required.

Product code NM-851, R +B with inlets for flexible tubing.

Finish – Chrome.

#### **1.5.2.3 Angle Regulating Valves:**

Cobra Watertech or similar approved (located under vanity) angle regulating valves, code 832-10 with slid. Finish – Chrome Plated. Hot – Left. Cold – Right.

#### **1.5.2.4 Inlet Tubing:**

Cobra Watertech or similar approved braided flexible inlet tubing, Blue and Red.

#### **1.5.2.5 Waste:**

Cobra Watertech or similar approved slotted basin waste, chrome – code 308 supplied complete with plug, flange, shank, male outlet connection and back nut.

#### **1.5.2.6 Bottle Trap:**

Cobra Watertech or similar approved bottle trap code 350 with chrome plated finish.

#### **1.5.2.7 Hot Water Heater:**

To be confirmed.

#### **1.5.2.8 Soap Dispenser:**

Bidvest Steiner or similar approved liquid soap dispenser.

Code SKU Liquid Dispenser – 4.

Finish - Stainless Steel.

Soap dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.5.2.9 Towel dispenser:**

Bidvest Steiner or similar approved paper towel (multi fold) dispenser.

Code SKU paper towel cabinet multifold – 4.

Finish - Stainless Steel.

Paper towel dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.5.2.10 Waste Bin:**

Bidvest Steiner or similar approved wall bin.

Code SKU wall bin – 4.

Finish - Stainless Steel.

Wall bin to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.5.2.11 Mirror:**

600 mm wide x 1 100 mm high x 6 mm thick mirror with polished edges fixed to wall above basins with (x4) chrome plated capped mirror screws.

Provide (x1) mirror per basin.

#### **1.5.2.12 Hand Dryer:**

To be confirmed.

### **1.6 BABY CHANGE**

#### **1.6.1 BASIN:**

##### **1.6.1.1 Basin:**

Vaal or similar approved Cameo drop in basin. Code – 702803WH.

Basin to be supplied complete with three semi punched tapholes.

Colour – standard White.

Refer Architects detail for vanity top.

Provide silicone sealant between basin perimeter and vanity top when placing the basin in position.

##### **1.6.1.2 Mixer Tap:**



Cobra Watertech or similar approved, product code 294CA Carina one tap hole basin mixer with aerated outlet with inlets for flexible tubing.

Finish – Chrome.

#### **1.6.1.3 Angle Regulating Valves:**

Cobra Watertech or similar approved (located under vanity) angle regulating valves, code 832-10 with slid. Finish – Chrome Plated. Cold – Right.

#### **1.6.1.4 Inlet Tubing:**

Cobra Watertech or similar approved braided flexible inlet tubing, Blue and Red

#### **1.6.1.5 Waste:**

Cobra Watertech or similar approved slotted sink waste, chrome code 308 supplied complete with plug, flange, shank, male outlet connection and back nut.

#### **1.6.1.6 Bottle Trap:**

Cobra Watertech or similar approved bottle trap code 350 with chrome plated finish.

#### **1.6.1.7 Soap Dispenser:**

Bidvest Steiner or similar approved liquid soap dispenser.

Code SKU Liquid Dispenser – 4.

Finish - Stainless Steel.

Soap dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.6.1.8 Towel dispenser:**

Bidvest Steiner or similar approved paper towel (multi fold) dispenser.

Code SKU paper towel cabinet multifold – 4.

Finish - Stainless Steel.



Paper towel dispenser to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.6.1.9 Waste Bin:**

Bidvest Steiner or similar approved wall bin.

Code SKU wall bin – 4.

Finish - Stainless Steel.

Wall bin to be fixed to the wall. Position to be confirmed by the Architects on site. Provide (x1) per bathroom.

#### **1.6.1.10 Mirror:**

600 mm wide x 1 100 mm high x 6 mm thick mirror with polished edges fixed to wall above basins with (x4) chrome plated capped mirror screws.

Provide (x1) mirror per basin.

### **1.7 STORE**

#### **1.7.1 WASH TROUGH:**

##### **1.7.1.1 Wash Trough:**

Franke Model or similar approved wall mounted ET101 Single Fabricated Economy Type Wash trough, 540 x 440 x 300mm deep.

Unit to be manufactured from Grade 430 (17/10) Stainless Steel, 0,8mm gauge. Unit to be manufactured with a sloped front, with wash ridges and a 40mm waste outlet.

Trough to be supplied with fixing lugs to mount the trough to the wall. To be supplied complete with bolts for fixing.

##### **1.7.1.2 Mixer Tap:**

Cobra Watertech or similar approved wall mounted Star sink mixer. Code FSK2W2SR-0GT01.

Finish – Chrome Plated.

##### **1.7.1.3 Waste:**



Cobra Watertech or similar approved slotted sink waste, chrome – code 311 supplied complete with plug, flange, shank, male outlet connection

and back nut.

#### **1.7.1.4 Trap:**

Marley or similar approved double drain black rubber deep seal “P” Trap to be securely fixed to the basin waste.

### **1.8 GENERAL**

- New internal water reticulation to tie into the new water supply point to the building – refer Civil Engineers drawings and specifications.
- Provide Cobra Cast Brass full way Gate Valves to new potable cold water supply pipe at entry point to building, (external.)
- Pressure reduction valve – to be confirmed.
- General potable water supply pipe work to be 20mm Copper pipe work recessed in walls and surface mounted above ceiling level.
- 15mm Copper Pipe Work to be used to connect fittings as required.
- New 150 Liter high pressure hot water heater to be installed to the ceiling void complete with drip tray and spout to outside of building.
- Provide a Cobra Cast Brass full way Gate Valves to undercounter hot water heater.
- Existing external sewer lines to be tested, inspected and approved by the Civil Engineers before final completion.
- All Hot Water Heaters to be installed in accordance with the manufacturer’s specifications and National Building Regulations.
- All Hot Water Heaters to be installed in accordance with the Department of Public Works Standard Specification – Architectural Specification and National Building Regulations.
- Hot water heaters to be provided with overflow tray and spout to discharge outside the building.
- Hand wash basins and wash trough to be provided with Hot and Cold-Water points.