

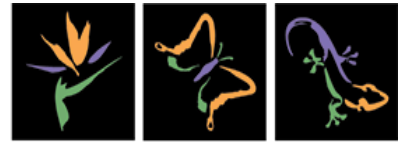


ENGINEERING  
PROCUREMENT  
MANAGEMENT

**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:** (x5) EXISTING GUEST  
HOUSES

### SANITARY SCHEDULE

34398-01-611-02-02

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. EXISTING AND NEW BATHROOMS

### 1.1 GENERAL

All of the existing (x5) Guest House bathrooms will be upgraded – all layouts to match and as per the Architects layout drawings.

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. Hot water heaters.

### 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.

Showers:

- Waste water – new 75 mm diam. Galvanised soil pipe below concrete surfacebed.
- Water - new hot and 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 BATHROOMS 1, 2 AND 3.

#### 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 Valves:**

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:**

CTM or similar approved Portofino Cara toilet paper holder.

Finish - chrome plated.

Fix to wall – position to be confirmed on site by Architects.

### **1.3.2 BASIN:**

#### **1.3.2.1 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.

Colour – standard White.

#### **1.3.2.2 Pedestal:**

Semi pedestal White code CWLPERD2-6DT01.

Colour – White.

#### **1.3.2.3 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.

#### **1.3.2.4 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.

#### **1.3.2.5 Inlet Tubing:**

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

#### **1.3.2.6 Waste:**

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

#### **1.3.2.7 Bottle Trap:**

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

#### **1.3.2.8 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.

#### **1.3.2.9 Towel Rail:**

CTM or similar approved Portofino Giulia double towel rail – 800 mm.

Finish – chrome plated.

Towel rail to be fixed to wall – position to be confirmed by Architects on site.

### **1.3.3 SHOWER:**

#### **1.3.3.1 Shower Floor:**

In situ constructed shower tray to fall to outlet. Finish with Coprox or similar waterproofing material and tile with 50 x 50 mm mosaic non slip floor tiles to fall to outlet. Tiles to be fixed with Progrid waterproofing floor tile adhesive. Joints to be grouted with Progrid or similar approved

#### **1.3.3.2 Shower Taps:**



Cobra Watertech or similar approved Carina under tile stop taps with wall flanges. Hot water left and Cold water right.

Finish – chrome plated.

Taps to be provided with hot and cold water red and blue markers

#### **1.3.3.3 Shower Head:**

Cobra Watertech or similar approved shower arm with wall flange, code – FSACAR 10-OGTPP0150.

Finish – chrome plated.

Cobra Watertech or similar approved shower head , code – FSWHT1GN-OGTO0156.

Finish – chrome plated.

#### **1.3.3.4 Shower outlet and trap:**

Cobra Watertech or similar approved shower P trap with shallow seal and screw fixed square grating.

Finish – stainless steel.

#### **1.3.3.5 Soap Holder:**

CTM or similar approved Portofino Giulia stainless steel soap holder fixed to wall.

#### **1.3.3.6 Towel Ring:**

CTM or similar approved Portofino Giulia 304 stainless steel towel ring fixed to wall.

Position to be confirmed on site by Architects.

### **1.4 DISABLED BATHROOM – (BLOCK E, BATHROOM 3 ONLY)**

#### **1.4.1 WC:**

##### **1.4.1.1 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.

#### **1.4.1.2 Angle Regulating Valves:**

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

#### **1.4.1.3 Toilet Paper Holder:**

CTM or similar approved Portofino Cara toilet paper holder.

Finish - chrome plated.

Fix to wall – position to be confirmed on site by Architects

#### **1.4.1.4 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.

### **1.4.2 BASIN:**

#### **1.4.2.1 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.

#### **1.4.2.2 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.

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

Cobra Watertech or similar approved (located under vanity) angle regulating valves, code 832-10 with slid. Finish – Chrome Plated. Hot – Left. 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 basin waste, chrome – code 308supplied 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 Towel Holder:**

CTM or similar approved Portofino Giulia double towel rail – 800 mm.

Finish – chrome plated.

Towel rail to be fixed to wall – position to be confirmed by Architects on site.

#### **1.4.2.8 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.

### 1.4.3 SHOWER:

#### 1.4.3.1 Shower Floor:

In situ constructed shower tray to fall to outlet. Finish with Coprox or similar waterproofing material and tile with 50 x 50 mm mosaic non slip floor tiles to fall to outlet. Tiles to be fixed with Progrid waterproofing floor tile adhesive. Joints to be grouted with Progrid or similar approved

#### 1.4.3.2 Shower Taps:

Cobra Watertech or similar approved Carina under tile stop taps with wall flanges. Hot water left and Cold water right.

Finish – chrome plated.

Taps to be provided with hot and cold water red and blue markers

#### 1.4.3.3 Shower Head:

Cobra Watertech or similar approved shower arm with wall flange, code – FSACAR 10-OGTPP0150.

Finish – chrome plated.

Cobra Watertech or similar approved shower head , code – FSWHT1GN-OGTO0156.

Finish – chrome plated.

#### 1.4.3.4 Shower outlet and trap:

Cobra Watertech or similar approved shower P trap with shallow seal and screw fixed square grating.

Finish – stainless steel.

#### 1.4.3.5 Grab Rail:

600 mm long Straight grab rail with flanges fixed to shower wall.

Finish – stainless steel.

#### 1.4.3.6 Soap Holder:

CTM or similar approved Portofino Giulia stainless steel soap holder fixed to wall.

**1.4.3.7 Towel Ring:**

CTM or similar approved Portofino Giulia 304 stainless steel towel ring fixed to wall.

Position to be confirmed on site by Architects.

**1.4.4 SINK:****1.4.4.1 Sink:**

Franke 800 mm x 460 mm Projectline PLN 611 stainless steel single bowl insert kitchen sink with one side drainer – 101.0040.339, or similar approved. Sink to be supplied complete with 38 mm diameter outlet, basin waste and PVC plug supplied complete with sink.

Provide continuous clear silicone sealant between sink perimeter and counter top. All edges to be properly sealed.

**1.4.4.2 Mixer Tap:**

Cobra Watertech or similar approved, product code 296CA Carina one hole sink mixer with aerated swivel outlet with inlets for flexible tubing. Finish – Chrome. Hot and cold water.

SAP Code: FSK2D1CA-0GT0009.

**1.4.4.3 Angle Regulating Valves:**

Cobra Watertech or similar approved (located under counter) angle regulating valves, code 232-10 with sliding flange. Finish – Chrome Plated. Hot – Left. Cold – Right.

**1.4.4.4 Inlet Tubing:**

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

**1.4.4.5 Waste:**

Cobra Watertech or similar approved unslotted sink waste, chrome – code 311 supplied complete with plug, flange, shank, male outlet connection and back nut.

**1.4.4.6 Trap:**



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

## 1.5 GENERAL

- New internal water reticulation to tie into the new water supply point to the
- building – refer Civil Engineers drawings and specifications.
- New wastewater to discharge into existing sewer system at the building – refer Civil Engineers documentation.
- 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.
- Provide a Cobra Cast Brass full way Gate Valves to undercounter hot water heater.
- Existing hot water heaters to be reused with new pipework to all bathrooms and kitchen areas.
- 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.
- Sink and hand wash basins to be provided with Hot and Cold-Water points.
- All external new Sewer Lines to be pressure tested, inspected and approved by the Civil Engineers before closing of excavations.