IZIKO SOUTH AFRICAN MUSEUM

DESCRIPTION OF THE WORKS AND TECHNICAL SPECIFICATIONS FOR PROPOSED NEW ACCESS STAIRWAY BETWEEN THE 5TH & 6TH FLOOR.

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Supplementary Documents	
Pack 1:	Plans
Pack 2:	Electrical Engineers Notes

DESCRIPTION OF THE WORKS AND TECHNICAL SPECIFICATIONS FOR PROPOSED NEW ACCESS STAIRWAY BETWEEN THE 5TH & 6TH FLOOR.

1. Steel structure

Notes:

1. **Structural steel is to be manufactured and installed in accordance with SANS 2001-CS1: Structural steelwork.**
2. **All steel members are to be Grade 355JR, in accordance with EN10025, unless otherwise indicated on the contract drawings. If not available, the Contactor must timeously contact the Engineer for alternatives.**
3. **Mill test certificates that indicate the mechanical and chemical properties are to be provided for all structural steel used on the project.**
4. **Before ordering of materials or manufacture of components, shop drawings are to be submitted to the Engineer for comment and to check that the general interpretation of the Engineer's drawings and specifications are correct.**
5. **For repetitive components (such as balustrades) a sample is to be made up for approval by the Architect and Engineer before fabrication commences.**
6. **If steelwork is to be exposed within the building, the Contractor is to take particular care of the appearance of all welding and connections to ensure that the result is aesthetically acceptable (refer to Architect for guidance).**
7. **Allow for a sample, or the first such complete element to be inspected & approved by the Architect before proceeding with the manufacture of the remaining elements.**
8. **Each structural steel component is to satisfy the fire protection requirements for that element and occupancy.**
9. **Corrosion Protection and Finishes: Corrosion protection of Structural steelwork shall comply with SANS 1200-HC.**
10. **Internal structural member finish: Unless otherwise stated, will be painted. Wire brush and paint with 1 coat suitable corrosion resistant primer and 2 coats Dulux Gloss Enamel Tinted paint (Colour: Black Mica), or equivalent. Paint to be applied in strict accordance to manufactures instruction.**
11. **Welding: Unless otherwise stated, all weld throat thicknesses shall be equal to the thickness of the thinner of the members being welded. All welds are to be continuous unless otherwise indicated. Refer relevant drawings for more specific specification relating to weld types and sizes. The welds are designed on the basis that the weld metal has at least the same tensile strength as the parent metal. The following electrode classifications therefore apply for both fillet and groove/ butt welds. E70XX (E480XX) min & E80XX (E550XX) max.**

1.1. Material:

1.1.1. PFC180x70 Landing cross beam Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

1.1.2. 12mm end plate with 4xM20 gr8.8 bolts or welded connection. Welding to be done in accordance to steel structure note 11. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

1.1.3. IPE200 Support Beam with 12mm gusset plates. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

1.1.4. Connection to existing structure to be finalized on site by Structural Engineer and Architect.

1.1.5. 60x100x3mm mild steel plate. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2. Under stairway steel members:

Note: All steel structure notes apply, refer to note 1- 11.

2.1. Stair Tread supported by 2 x L50x50x8. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.2. 1560x100x3mm mild steel plate. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.3. 220x12 Plate stringer. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.4. 220x12mm Steel side beams stringers. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.5. L60x60x5 Landing cross beams. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.6. L50x50x8mm support glass landing. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

2.7. PFC160x65 Landing cross beam. Finish: Enamel paint to Architects colour specification, refer to steel structure note 10.

3. Glazed treads & landings:

Note:

1. **All safety glazing material shall be permanently marked by the installer in such a manner that the markings are visible in individual panes after installation**.
2. **Ensure all safety glazing material complies with the requirements of SANS 1263-1 g.**
3. **The glass installer should request a thermal stress evaluation by the glass manufacturer or Competent Person (Glazing) to protect the interests of all parties concerned before the commencement of the project.**

3.1. 39.04mm Annealed Multilam Glass for treads & landings. The bottom glass pane is to be acid etched and the top layer of glass is to be non-slip. Handled according to manufacturer's instructions.

3.2. 8mm PL below tread end plates for fixing tread to stringers.

3.3. Bond Breaker (polycord) or equivalent. Installed according to manufacturer's instructions.

3.4. 25 x 6mm Structural glazing tape Norton Thermal-bond or equivalent. It is the responsibility of the persons installing the glass to ensure that it does not crack due to thermal or other causes.

3.5. DC 895 or equivalent structural Silicone. Installed according to manufacturer's instructions.

4. Glass balustrade & fixing to steel upright:

Note: All structural steel & glazing notes apply where applicable. Refer to structural steel notes 1 – 11 and Glazed treads & landings notes 1- 3.

4.1. 12mm Glass Balustrade is to match existing atrium balustrade. A sample is to be made up for approval by the Architect and Engineer before fabrication commences.

5. Handrail & fixing to steel upright:

5.1. 50mm Ø Eucalyptus wood handrail with fixings to Architects detail. Finish: stained to match existing handrail of balustrade found in the atrium. Varnished with a clear matt finish. A sample is to be made up for approval by the Architect and Engineer before fabrication commences.

6. Nuts & bolts:

6.1. M12 hexagon socket countersunk screws

6.2. Bolts: Class 8.8 bolts to be used throughout. For external work, only hot dipped galvanised bolts, prepared as per SANS 121 (SABS ISO 1461) are to be used. Allow adequate time for ordering. All bolts used internally to be electro-galvanised or hot dip galvanised.

7. Electrical:

7.1. LED light strip to manufactures specification and detail. See Annexure A.

7.2. LED to be placed inside a recessed strip along the underside of the wooden handrail. Typical interconnection of LED strip lights to be doen through mounting brackets of the handrail.

7.3. Handrail to drop down to floor of the 6th floor in order to house the electrical wiring.

7.4. 1 x 20mm Ø PVC conduit chased horizontally into existing screed below tiles with stand-ups into both new handrails to feed power to LED strip lights. The point of supply is at the existing light switch on the 6th Floor. The exact positions to be determined on site.

8. Electronic stairlift:

The contractor shall submit an electronic stairlift specification to the Architects and relevant Engineers involved for approval. The chairlift must comply with local safety and quality standards.