Engineer:

TECHNO DESIGNS
ENGINEERING
Unit 6a Industria & Transport Complex

KEON CONSULTING ENGINEERS
TECHNO DESIGNS

Client:

Johannesburg Water

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Date: February 2022	Date: February 2022	Date: February 2022
Drawn By: A. Moodley	Designed By: G. Kuhnrera	Checked By: G. Kuhnrera
Signature:	Signature:	Signature:

Engineer:
G. Kuhnrera Pr Eng (2010437)

0 5 10 15 20 30 40 50Mt
ON ORIGINAL

THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES (BOQ). IN THOSE CASES WHERE THE BOQ SPECIFICATIONS DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PREFERENCE

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND PROJECT SPECIFICATIONS.
2. DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
4. SLABS UNLESS OTHERWISE INDICATED.
5. ALL EXCAVATIONS TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE BEING PLACED.
6. ALLOWABLE BEARING PRESSURE UNDER FOUNDATIONS: TBA
7. COMPACTION RESULTS OF INSITU MATERIAL UNDER STRUCTURES TO BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE CONCRETE WORKS COMMENCES.
8. CONSTRUCTION TO COMPLY WITH ALL DIMENSIONS WITH THE ENGINEER BEFORE CONSTRUCTION
9. ALL STEEL WORK TO BE HOT DIP GALVANISED UNLESS OTHERWISE INDICATED
10. POSITIONS AND SIZES OF ALL HOLES, POCKETS, DUCTS, ETC. MUST BE DETERMINED ON SITE BETWEEN THE CIVIL AND MECHANICAL CONTRACTOR.
11. ALL STEELWORK SHALL BE PAINTED WITH 2 COATS OF APPROVED PAINT AS PER MANUFACTURERS SPECIFICATIONS.
12. ALL CONCRETE SHALL BE OF THE FOLLOWING GRADE AND MIX 25 DAY CUBE
STRENGTH UNLESS OTHERWISE STATED:-
FOUNDATION 40 MPa / 19mm
WALLS 40 MPa / 19mm
FLOORS 40 MPa / 19mm
MASS CONCRETE 20 MPa / 19mm
BEAMS 40 MPa / 19mm
COLUMNS 40 MPa / 19mm
13. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
FOUNDATIONS 50mm
FLOORS 50mm
WALLS 50mm
COLUMNS 50mm
14. ALL REINFORCEMENT SHALL COMPLY WITH SABS 920, TYPE C, CLASS 2 GRADE 1.
15. WHERE IT IS NECESSARY TO UTILIZE CONSTRUCTION JOINTS, SUCH JOINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
16. UNLESS OTHERWISE STATED THE CONCRETE TO ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED WITH A 25mm X 25mm CHAMFER.
17. THE DESIGNER OF ACCURACY SHALL BE IN ACCORDANCE WITH SABS 1200 G LEVEL II.
18. HAND PAILING MUST NOT BE PAINTED.
19. ALL UNFORMED SURFACES SHALL BE AS FOLLOWS:
FLOOR FINISHES STEEL TROWELLED
WALL TOPS STEEL TROWELLED
TOP SURFACES OF FOUNDATIONS WOOD FLOATED
TOP SURFACES OF FOUNDATIONS WOOD FLOATED
OUTSIDE STRUCTURES WOOD FLOATED
INSIDE STRUCTURES STEEL TROWELLED
20. ALL PREWORK AND FITTINGS THROUGH CONCRETE TO BE MANUFACTURED FROM UPVC WITH A MINIMUM OF 50mm LENGTH BETWEEN WALL AND SOCKET, UNLESS OTHERWISE INDICATED.
21. ALL CONCRETE SHALL BE MADE WITH ORDINARY PORTLAND CEMENT WITH 30% FLYASH
22. WATER:CEMENT RATIO NOT TO EXCEED 0.51
CEMENT OR SIMILAR APPROVED CEMENT EXTENDER.
23. THE CEMENT CONTENT : 325 kgm³ -50kgm³
24. NO OPENFREESETS ARE PERMITTED. ALL SHUTTERS TO BE SUPPORTED USING AN APPROVED EMBEDDED BOLT SYSTEM
25. NO PENETRATIONS THROUGH CONCRETE WALLS OR SLABS WILL BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. ALL PENETRATIONS MUST BE SLEEVED AND WATERPROOFED
26. CONCRETE CUBE TESTS TO BE TAKEN AND RESULTS TO BE SUBMITTED THROUGHOUT THE CONTRACT.
27. ALL LITHIANCE TO BE REMOVED FROM CONSTRUCTION JOINTS AND CLEANED THOROUGHLY.

Project: JW14406 - LINBRO PARK ASSOCIATED WORKS)

Description: 3.0ML WATER TOWER: ELEVATION AND DETAIL (7 OF 9)

Issued For: TENDER

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	7 OF 9	February 2022

Project No:	Drawing No:	Revision:
C01486	SC-07	T0

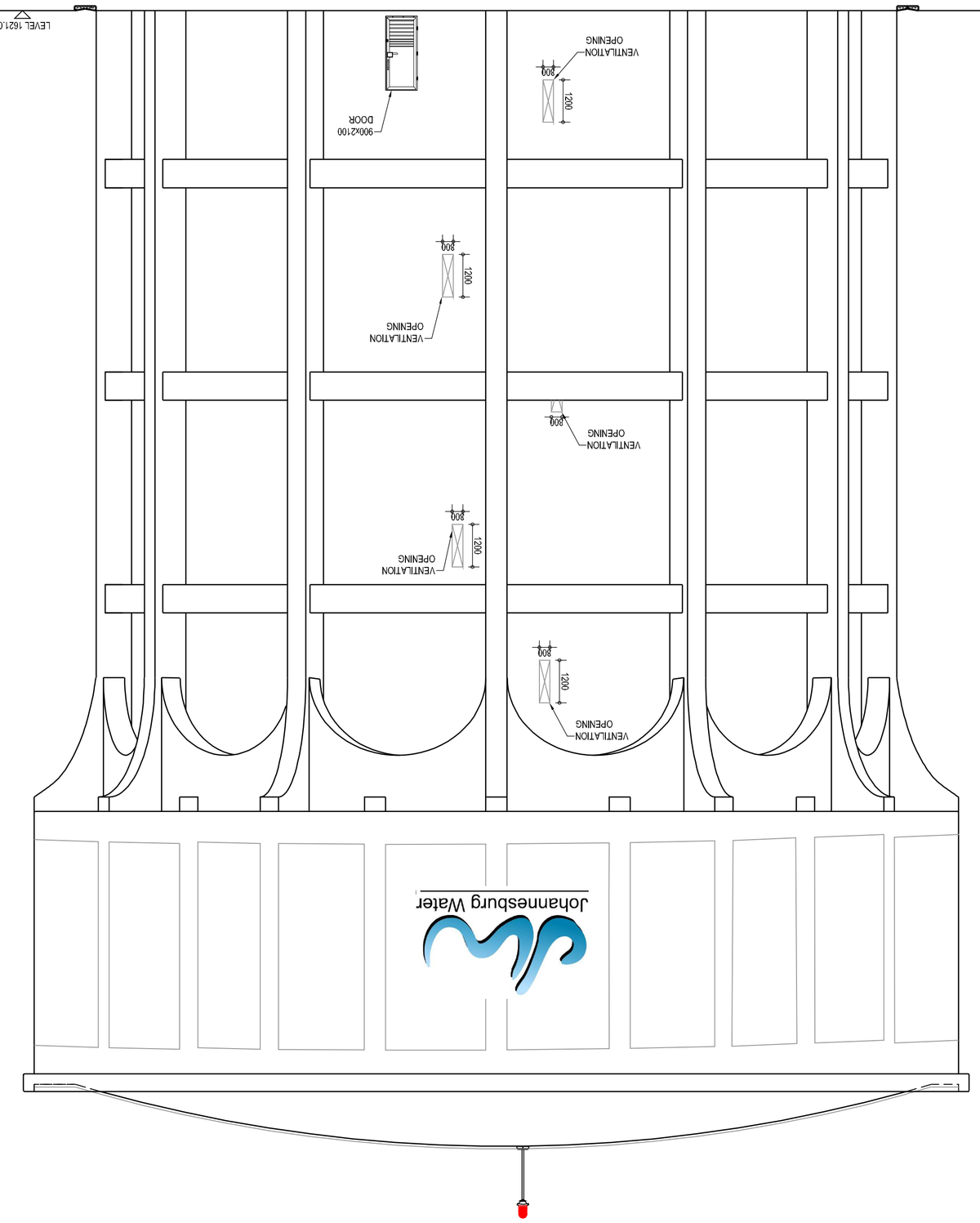
Refer To Drawing No:

Key Plan:

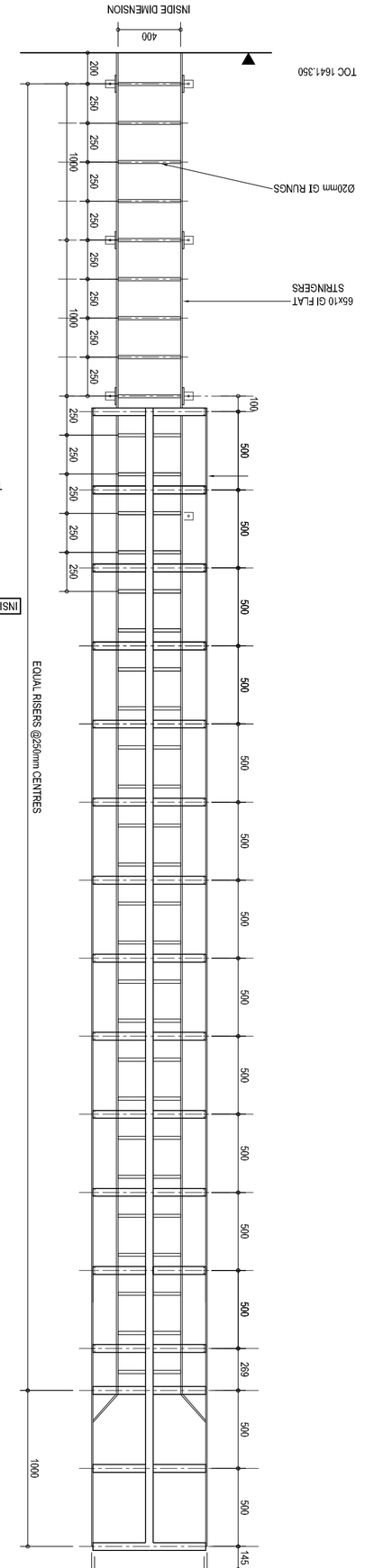
No	Date	Details	Chd	Appd
T0	2022.09.14	ISSUED FOR TENDER	GK	CK

Revisions

ELEVATION
SCALE: 1:100



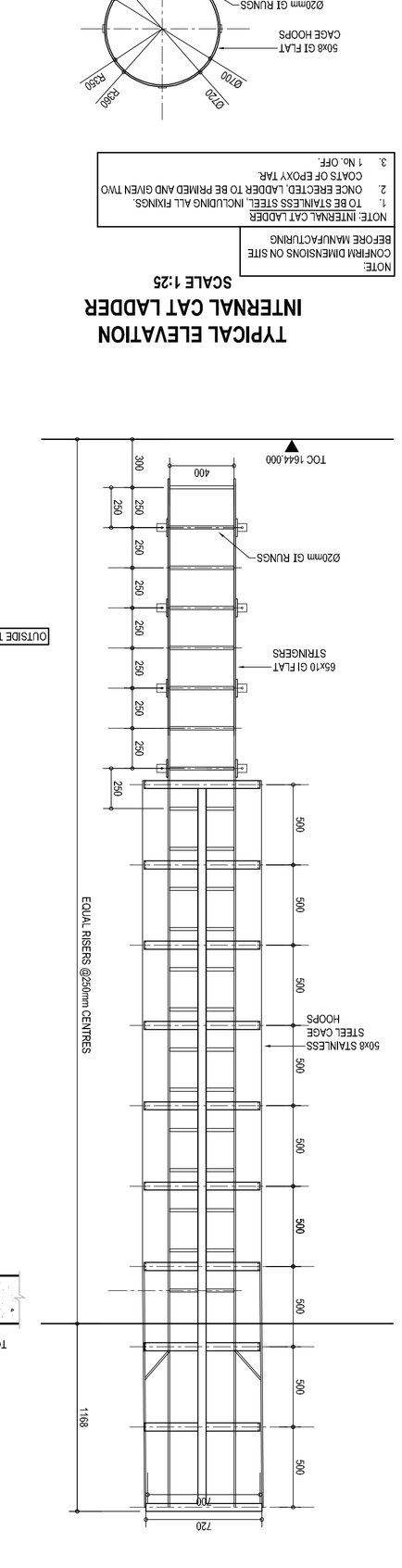
ELEVATION B - B
(EXTERNAL CAT LADDER)
SCALE 1:25



NOTE:
CONFIRM DIMENSIONS ON SITE BEFORE MANUFACTURING

1.	TO BE GALVANISED IRON INCLUDING ALL FIXINGS
2.	ONCE ERECTED, LADDER TO BE PRIMED AND GIVEN TWO COATS OF EPOXY TAR.
3.	1 No. OFF.

TYPICAL EXTERNAL CAT LADDER
SCALE 1:25

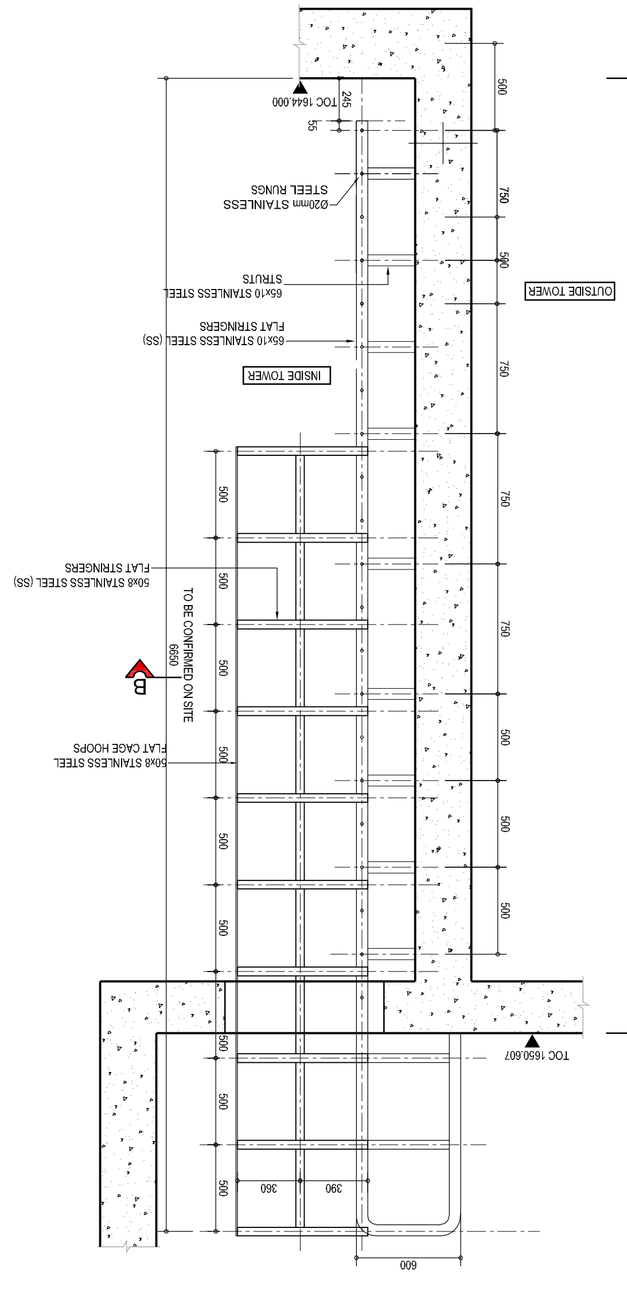


NOTE:
CONFIRM DIMENSIONS ON SITE BEFORE MANUFACTURING

1.	TO BE STAINLESS STEEL INCLUDING ALL FIXINGS
2.	ONCE ERECTED, LADDER TO BE PRIMED AND GIVEN TWO COATS OF EPOXY TAR.
3.	1 No. OFF.

TYPICAL ELEVATION
INTERNAL CAT LADDER
SCALE 1:25

TYPICAL INTERNAL CAT LADDER
SCALE 1:25



SECTION A - A
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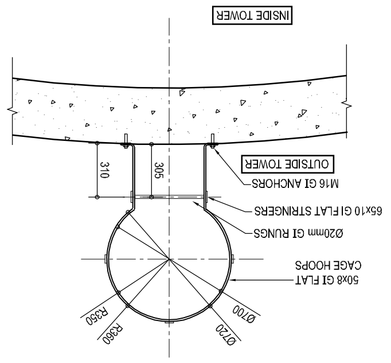
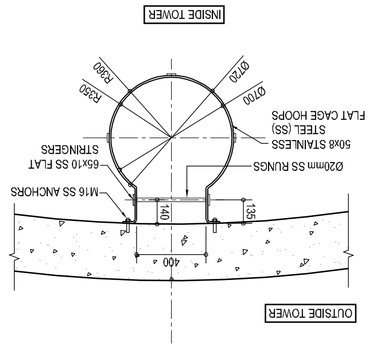
SECTION B - B
SCALE 1:25