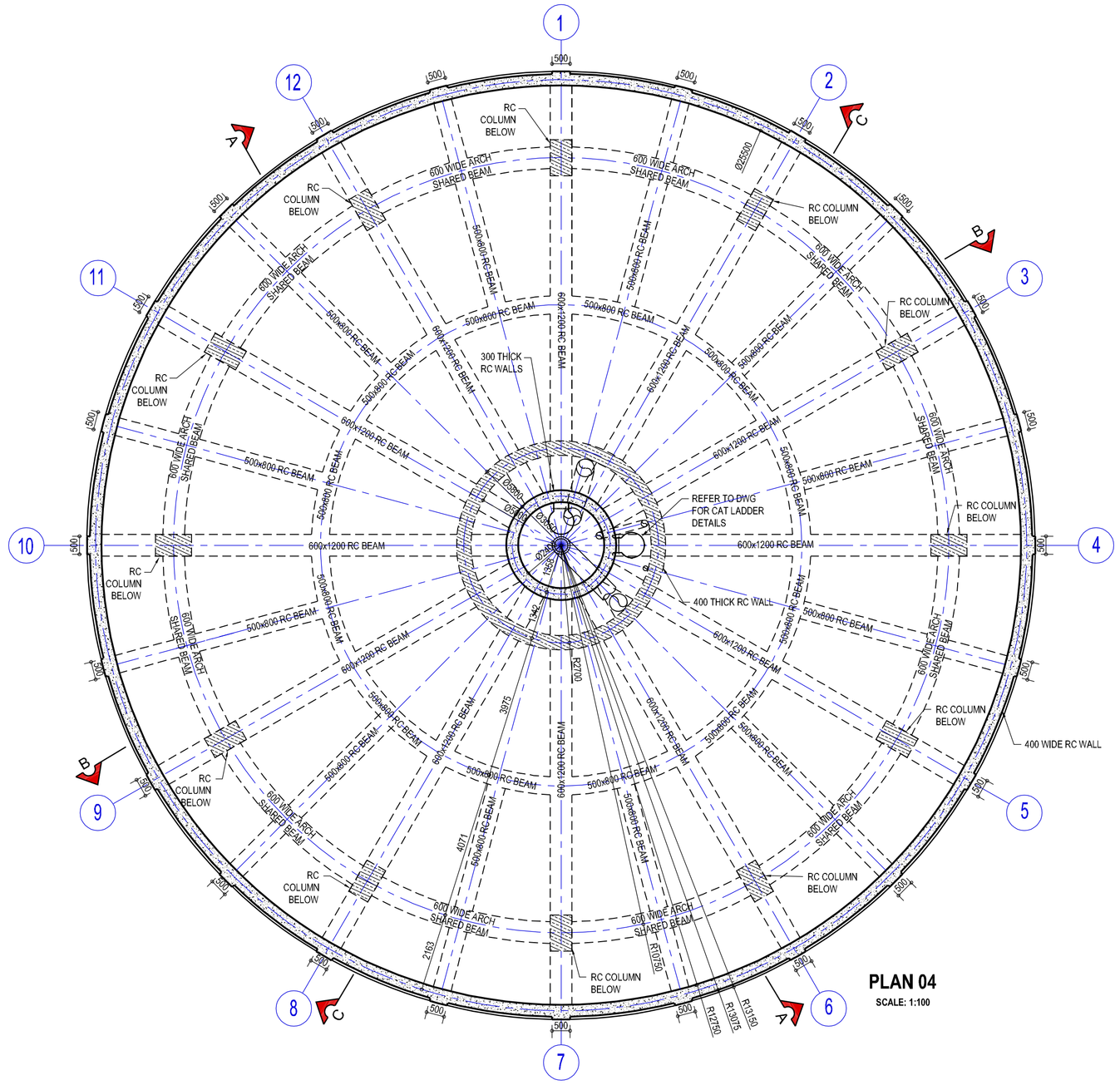
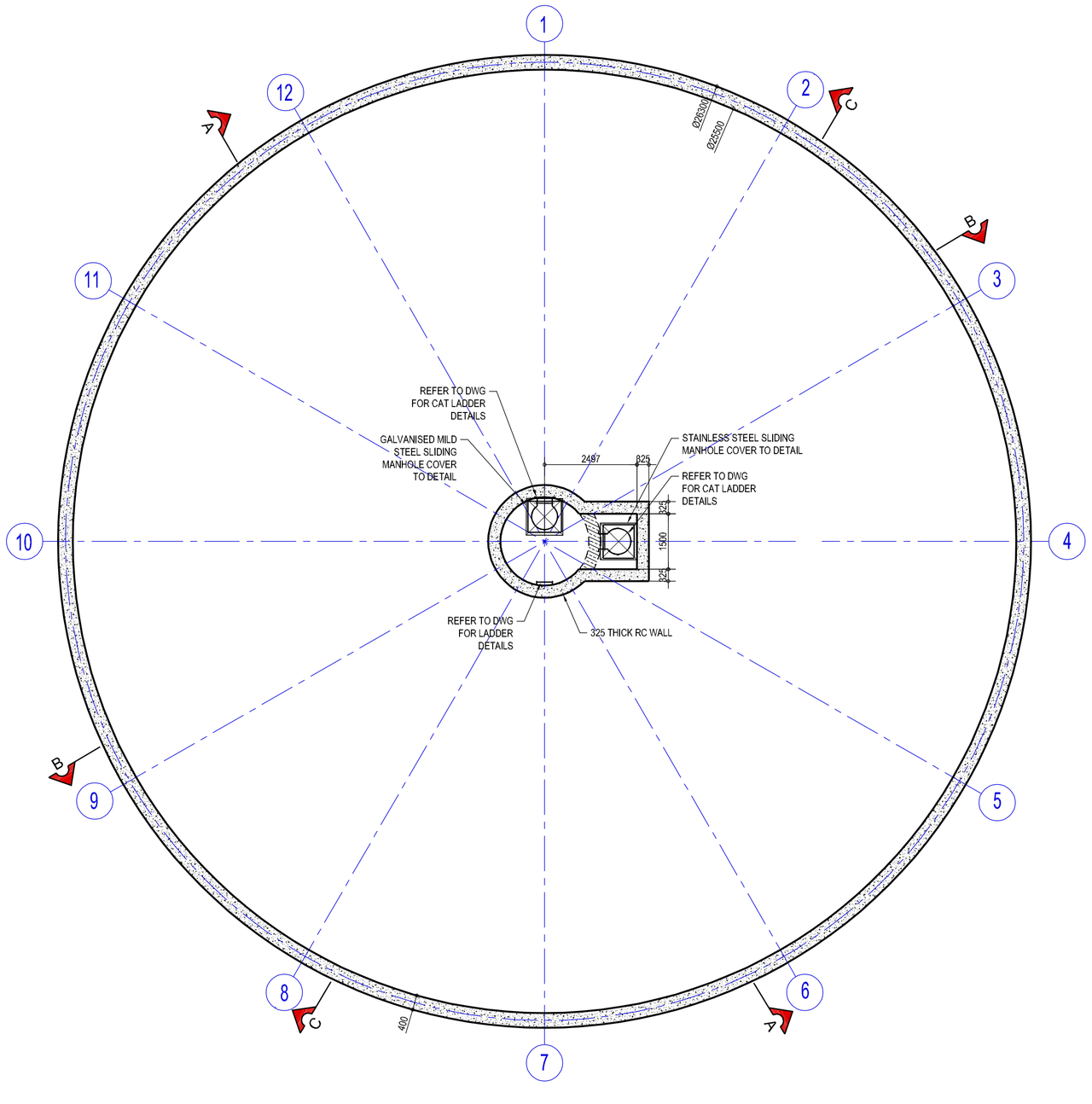


PLAN 04
SCALE: 1:100



PLAN 05
SCALE: 1:100

Engineer:

KEON CONSULTING ENGINEERS
TECHNO DESIGNS
Civil Structural & Transport Engineers

TECHNO DESIGNS ENGINEERING
38 Dane Street Glen Austin Midrand
TELEPHONE (011) 045 2532
CELL (072) 301 8811
EMAIL engineer@technodesigns.co.za
OFFICES JOHANNESBURG
WEBSITE www.technodesigns.co.za

KEON CONSULTING ENGINEERS
5th Avenue Office Park,
64b 5th avenue Newton
Port Elizabeth
TELEPHONE +27 413630189
WEBSITE www.keon.co.za

Client:

Johannesburg Water

JOHANNESBURG WATER
Turbine Hall,
66 Nteni Pitso Street,
Newtown, Johannesburg

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

ON ORIGINAL

0 5 10 20 30 40 50MM

Engineer:
G. Kucherera Pr Eng (20110431)

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

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. 50mm BLINDING LAYER TO BE PLACED BELOW ALL GROUND LEVEL 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. CONTRACTOR TO CONFIRM LEVELS AND DIMENSIONS WITH THE ENGINEER BEFORE CONSTRUCTION.
9. ALL STEELWORK 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 BOLTS, WASHERS, NUTS, ETC. SHALL BE STAINLESS STEEL NOTWITHSTANDING THESE REQUIREMENTS, THE CONTRACTOR SHALL VERIFY THAT THE MATERIAL OF THE BOLTS, WASHERS AND NUTS USED WILL NOT CAUSE ANY GALVANIC ACTION BETWEENITSELF AND THE SURROUNDING MATERIAL. SHOULD GALVANIC ACTION BE POSSIBLE, THE CONTRACTOR SHALL PROVIDE SUITABLE NON-METALLIC SLEEVES AND WASHERS FOR SUCH BOLTS.
12. ALL CONCRETE SHALL BE OF THE FOLLOWING GRADE AND MIN. 28 DAY CUBE STRENGTH (UNLESS OTHERWISE STATED):- -
    FOUNDATION 40 MPa / 19mm
    WALLS 40 MPa / 19mm
    MASS CONCRETE 20 MPa / 19mm
    FLOORS 40 MPa / 19mm
    COLUMNS 40 MPa / 19mm
    BEAMS 40 MPa / 19mm
13. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
    FOUNDATIONS 50mm
    WALLS 50mm
    FLOORS 50mm
    COLUMNS 50mm
    NOTE THAT CLEAR CONCRETE COVER MUST BE MAINTAINED BY THE USE OF CONCRETE COVER BLOCKS MANUFACTURED FROM CONCRETE WITH THE SAME STRENGTHS AS THE UNITS IN WHICH IT IS INCORPORATED ON THE BASIS OF A MINIMUM OF ONE (1) COVER BLOCK PER 0.75 SQUARE METRE.
14. ALL REINFORCEMENT SHALL COMPLY WITH SABS 920, TYPE C, CLASS 2 GRADE 1.
15. WHERE IT IS NECESSARY TO UTILISE CONSTRUCTION JOINTS, SUCH JOINTS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
16. UNLESS OTHERWISE STATED THE CORNERS OF ALL EXPOSED CONCRETE SHALL BE PROVIDED WITH A 25mm x 25mm CHAMFER.
17. THE DEGREE OF ACCURACY SHALL BE IN ACCORDANCE WITH SABS 1200 G LEVEL II.
18. HAND RAILING MUST NOT BE PAINTED.
19. ALL UNFORMED SURFACES SHALL BE AS FOLLOWS:-
    FLOOR INVERTS: STEEL TROWELLED
    WALL TOPS: WOOD FLOATED
    TOP SURFACES OF FOUNDATIONS
    INSIDE STRUCTURE: STEEL TROWELLED
    TOP SURFACES OF FOUNDATIONS
    OUTSIDE STRUCTURE: WOOD FLOATED
20. ALL PIPEWORK AND FITTINGS THROUGH CONCRETE TO BE MANUFACTURED FROM uPVC WITH A MINIMUM OF 350mm LENGTH BETWEEN WALL AND SOCKET, UNLESS OTHERWISE INDICATED.
21. ALL CONCRETE SHALL BE MADE WITH ORDINARY PORTLAND CEMENT WITH 30% FLY ASH CEMENT OR SIMILAR APPROVED CEMENT EXTENDER.
22. WATER/CEMENT RATIO NOT TO EXCEED 0.5:1
23. THE CEMENT CONTENT : 325 kg/m³ -450kg/m³
24. NO OPEN FERRELS ARE PERMITTED. ALL SHUTTERS TO BE SUPPORTED USING AN APPROVED EMBEDDED BOLT SYSTEM.
25. NO-FINES CONCRETE TO BE FLOATED TO SMOOTH FINISH.
26. CONCRETE CUBE TESTS TO BE TAKEN AND RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS AND QUALITY MONITORING.
27. ALL LATTANCE TO BE REMOVED FROM CONSTRUCTION JOINTS AND CLEANED THOROUGHLY.

Refer To Drawing No:

Key Plan:

No	Date	Details	Chd	Appd
T0	2023.09.14	ISSUED FOR TENDER	GK	GK

Revisions

Project: JW14406 - LINBRO PARK TOWER (WITH ASSOCIATED WORKS)

Description: 3.0ML WATER TOWER: LAYOUTS (5 OF 9)

Issued For: TENDER

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	5 OF 9	February 2022

Project No:	Drawing No:	Revision:
C01486	SC-05	T0