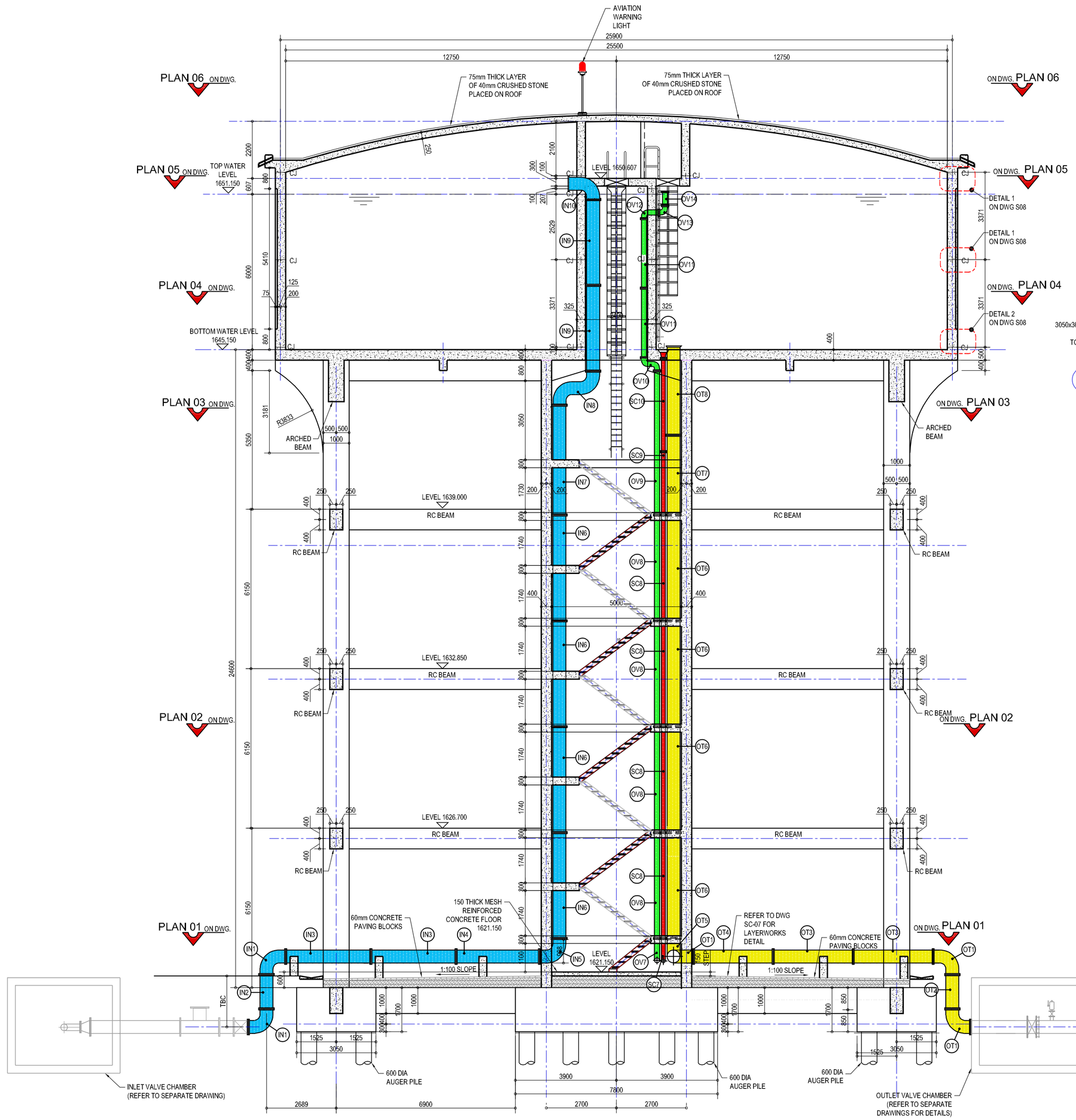
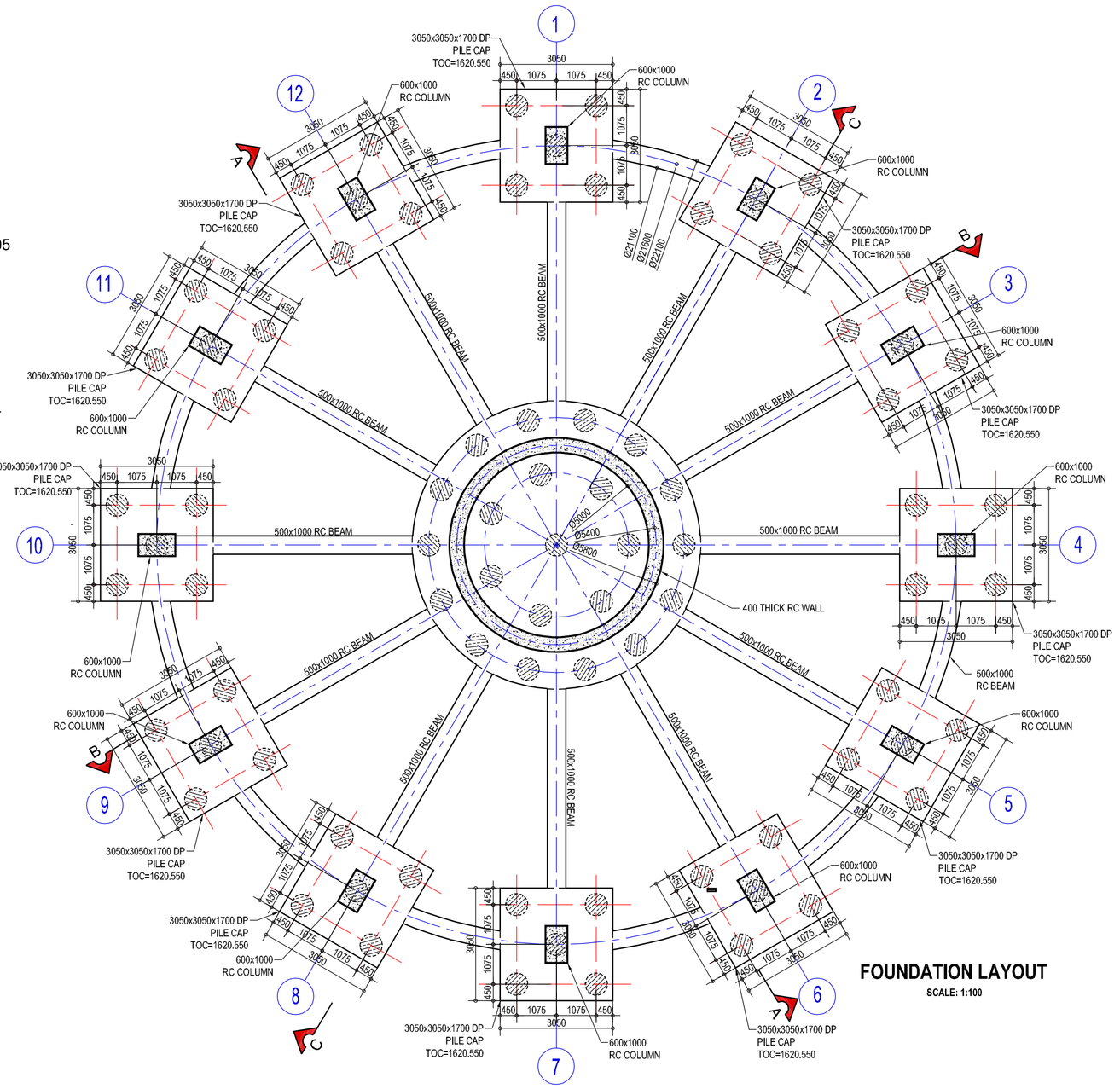


SECTION A-A

SCALE: 1:100



FOUNDATION LAYOUT

SCALE: 1:100

INLET PIPE			
ITEM	DESCRIPTION	SKETCH	QTY
IN1	Ø500mm 90° STEEL SHORT RADIUS BEND, F.B.E		2
IN2	Ø500mm STEEL PIPE 1236mm LONG, F.B.E		1
IN3	Ø500mm STEEL PIPE 3200mm LONG, F.B.E		2
IN4	Ø500mm STEEL PIPE 3133mm LONG, F.B.E		1
IN5	Ø500mm 90° SHORT RADIUS BEND WITH PUDDLE FLANGE AND BASE PLATE		1
IN6	Ø500mm STEEL PIPE 4000mm LONG F.B.E		4
IN7	Ø500mm STEEL PIPE 3002mm LONG F.B.E		1
IN8	Ø500mm STEEL S-BEND, F.B.E		1
IN9	Ø500mm STEEL PIPE 3226mm LONG, F.B.E		2
IN10	Ø500mm STEEL PIPE SHORT RADIUS BEND WITH PUDDLE FLANGE AND BELLMOUTH O.E AND F.O.E		1

OVERFLOW PIPE			
ITEM	DESCRIPTION	SKETCH	QTY
OV1	Ø200mm STEEL PIPE 1236mm LONG, F.B.E		3
OV2	Ø200mm STEEL PIPE 1236mm LONG, F.B.E		1
OV3	Ø200mm STEEL PIPE 3000mm LONG, F.B.E		2
OV4	Ø200mm STEEL PIPE 3060mm LONG, F.B.E		1
OV5	Ø200mm STEEL PIPE 2276mm LONG, F.B.E		1
OV6	Ø200mm STEEL PIPE 1172mm LONG, F.B.E		1
OV7	Ø200mm 90° SHORT RADIUS BEND WITH PUDDLE FLANGE AND BASE PLATE		1
OV8	Ø200mm STEEL PIPE 4000mm LONG, F.B.E		4
OV9	Ø200mm STEEL PIPE 4323mm LONG, F.B.E		1
OV10	Ø200mm STEEL S-BEND, F.B.E		1
OV11	Ø200mm STEEL PIPE 2600mm LONG, F.B.E		2
OV12	Ø200mm 90° STEEL SHORT RADIUS BEND, F.B.E		1
OV13	Ø200mm 90° STEEL SHORT RADIUS BEND, F.B.E		1
OV14	Ø200mm STEEL PIPE 463mm LONG, F.B.E		1

OUTLET PIPE			
ITEM	DESCRIPTION	SKETCH	QTY
OT1	Ø500mm 90° STEEL SHORT RADIUS BEND, F.B.E		3
OT2	Ø500mm STEEL PIPE 1236mm LONG, F.B.E		1
OT3	Ø500mm STEEL PIPE 3000mm LONG, F.B.E		2
OT4	Ø500mm STEEL PIPE 2989mm LONG, F.B.E		1
OT5	Ø500mm 90° SHORT RADIUS BEND WITH PUDDLE FLANGE AND BASE PLATE		1
OT6	Ø500mm STEEL PIPE 4000mm LONG, F.B.E		4
OT7	Ø500mm STEEL PIPE 2994mm LONG, F.B.E		1
OT8	Ø500mm STEEL PIPE 2257mm LONG, F.B.E		1

SCOUR PIPE			
ITEM	DESCRIPTION	SKETCH	QTY
SC1	Ø150mm 90° STEEL SHORT RADIUS BEND, F.B.E		3
SC2	Ø150mm STEEL PIPE 1236mm LONG, F.B.E		1
SC3	Ø150mm STEEL PIPE 3000mm LONG, F.B.E		2
SC4	Ø150mm STEEL PIPE 3060mm LONG, F.B.E		1
SC5	Ø150mm STEEL PIPE 1038mm LONG, F.B.E		1
SC6	Ø150mm STEEL PIPE 668mm LONG, F.B.E		1
SC7	Ø500mm 90° SHORT RADIUS BEND WITH PUDDLE FLANGE AND BASE PLATE		1
SC8	Ø150mm STEEL PIPE 4000mm LONG, F.B.E		4
SC9	Ø150mm STEEL PIPE 2362mm LONG, F.B.E		1
SC10	Ø150mm STEEL PIPE 2738mm LONG, F.B.E		1

Engineer:
KEON CONSULTING ENGINEERS
TECHNO DESIGNS
Civil Structural & Transport Engineers

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Client:
Johannesburg Water
JOHANNESBURG WATER
Turbine Hall, 65 Nkemi Pilliso 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 15 20 25 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 BETWEEN ITSELF 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
    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 UTILIZE 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 III.
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 LAITANCE 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 AND SECTION (2 OF 9)

Issued For: TENDER

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	2 OF 9	February 2022

Project No:	Drawing No:	Revision:
C01486	SC-02	T0