



RAFT FOUNDATION REBAR LAYOUT PLAN  
SCALE 1:100

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- Technical drawing of a wall cross-section showing reinforcement details. The wall has a width of 280mm. It features a DPC 30MIN COVER at the top, 2Y12 BARS, and STIRRUPS @ 300mm C/C. The bottom reinforcement includes 2Y12 BARS and a 30 MIN COVER. A 100X100 CHAMFER AT EDGE BEAM (MIN) is shown at the base. The NGL (Natural Ground Level) is indicated. A vertical dimension of 150 MIN is shown for the upper section, and a horizontal dimension of 200 is shown for the lower section.



**Johannesburg Water**

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JOHANNESBURG WATER  
 Turbine Hall,  
 65 Ntzeni Piliso Street,  
 Newtown, Johannesburg

THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES BOOK. IN THOSE CASES WHERE THE BOOK SPECIFICATIONS DIFFER FROM THESE NOTES THESE NOTES SHALL TAKE PRECEDENCE

ON ORIGINAL

0 5 10 15 20 25 30 40 50 500MM

Engineer: \_\_\_\_\_

Drawn By: _____	Designed By: _____	Checked By: _____
M. Mumbura	T. Mapfumo	T. Chikwata

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

- 10 SETTING OUT AND GENERAL
- 11 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH
- 12 ARCHITECT'S DRAWINGS
- 13 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE
- 14 BEFORE COMMENCING WORK
- 15 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER
- 16 THIS DRAWING MUST NOT BE USED FOR SCALE. USE ONLY
- 17 INFORMATION REFERRED TO SURFACE INFORMATION AND ARCHITECT
- 18 WHERE CLARITY IS SOUGHT
- 19 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATA
- 20 SHOULD REFER TO SURFACE INFORMATION AND ARCHITECT'S
- 21 DRAWINGS
- 22 STRENGTH OF WORK IS TO BE CARRIED OUT IN ACCORDANCE
- 23 WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S
- 24 SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN
- 25 ACCORDANCE WITH S.A.N.S. 1200 FORMATION AND EARTHWORKS IN
- 26 ACCORDANCE WITH S.A.N.S. 1200D.
- 27 CONSULT RELEVANT SERVICES: MECHANICAL, ELECTRICAL, &
- 28 PLUMBING AND SANITARY SERVICES TO BE LOCATED AND
- 29 DRAINAGE, STORMWATER OUTLETS, RUPOLS AND HOLES AND
- 30 SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED
- 31 UNLESS APPROVED BY THE ENGINEER
- 32 FOUNDATIONS
- 33 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND
- 34 APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS

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| 2.2 | CAST:<br>NO FOUNDATIONS ARE TO BE CAST IN CONCRETE. A 50mm<br>thick layer of 10mpa / 1mm MINIMUM CONCRETE IS TO BE<br>CAST UNDER ALL REINFORCED BEAMS, REINFORCED STRUT<br>FOOTINGS AND GROUND BEAMS.  | 3.4 | ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N S 10000<br>PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II<br>AND ALL OTHERS SPECIFIED THEREIN.   |
| 2.3 | OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10mpa /<br>mm CONCRETE AT THE CONTRACTOR'S EXPENSE.  | 3.5 | CONCRETE CURB TEST RESULTS TO BE SUBMITTED TIMELY TO<br>ENGINEER FOR PERJURAL, RECORDS, COMMENT AND<br>APPROVAL.  |
| 2.4 | ALL CONCRETE SURFACE BEADS SHALL BE DONE WITH AN<br>APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE<br>WITH THE PROJECT SPECIFICATIONS.   | 4.0 | REINFORCEMENT:<br>MINIMUM TENSILE STRENGTH:<br>MILD STEEL 250N/mm <sup>2</sup><br>HIGH TENSILE STEEL 350N/mm <sup>2</sup>   |
| 2.5 | ALLOWABLE BEARING PRESSURE UNDER<br>CONCRETE BASES = 150Kpa / 30MPa  | 4.2 | ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY<br>ENGINEER BEFORE ANY CONCRETE IS CAST - 48 HOURS<br>WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF<br>INSPECTION   |
| 3.0 | CONCRETE<br>CHARACTERISTIC 28 DAY STRENGTH:<br>BASES 25MPa / 19mm<br>STRUT FOOTINGS 28MPa / 25mm<br>SURFACE BEADS:<br>SUSPENDED SLABS & BEAMS 30MPa / 19mm<br>CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE<br>SUBMITTED TO ENGINEER FOR APPROVAL. ALL CONCRETE<br>MIX DESIGNS FOR SURFACE BEADS TO HAVE MINIMUM BEAD<br>CHARACTERISTICS | 4.3 | LAP LENGTH TO REINFORCING TO BE MINIMUM 50x SMALLER<br>BAR DIAMETER UNLESS OTHERWISE NOTED<br>MIN REINFORCEMENT 2 REBAR ARE TO BE PLACED IN SLAB<br>(TOP MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED)             |
| 3.2 | CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE<br>SUBMITTED TO ENGINEER FOR APPROVAL. ALL CONCRETE<br>MIX DESIGNS FOR SURFACE BEADS TO HAVE MINIMUM BEAD<br>CHARACTERISTICS   | 4.5 | THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE<br>THAT THE SPECIFIED COVER ALL REINFORCEMENT IS<br>MAINTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO<br>SIGN OFF ON THE PROTECTION OF THE REINFORCEMENT. |
| 3.3 | CONCRETE TO BE ADEQUATELY CURED BY KEEPING<br>SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER<br>CASTING.   | 4.6 | ATTEND TO REINFORCEMENT:<br>STRUT FOOTINGS 50mm<br>BASES 30mm<br>COLUMNS AND WALLS: 30mm<br>SUSPENDED SLABS: 30mm   |

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| 4.7 | SUSPENDED BEAMS:  | 30mm   |
| 4.7 | CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF THE WORK AND CALLING THE ENGINEER FOR INSPECTION |  |
| 5.0 | FORMWORK AND BRACING  |  |
| 5.1 | STRIPPING TIMES FOR:  |  |
|     | COLUMN AND WALL SHUTTERING:   | 15 DAYS  |
|     | SLAB SHUTTERING:  | 14 DAYS IN HOT WEATHER,<br>12 DAYS IN COLD WEATHER |
|     | FLAT SLABS:   | 4 DAYS IN HOT WEATHER,<br>4 DAYS IN COLD WEATHER   |
| 5.2 | PROPPING TIMES FOR:   |  |
|     | SLABS:  | 14 DAYS IN HOT WEATHER,<br>21 DAYS IN COLD WEATHER |
|     | (SUBJECT TO CURB TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL)                  |  |
|     | NO DEMONSTRATION OF SUFFICIENT STRENGTH UNTIL INSPECTED BY ENGINEER                             |  |
| 5.3 | CONCRETE FINISHES: UNLESS NOTED OTHERWISE   |  |
|     | COLUMNS AND WALLS: OFF SHUTTER  |  |
|     | BEAMS AND SLAB SOFFIT: OFF SHUTTER  |  |
|     | TOP OF SUSPENDED BEAMS: SMOOTH FLOAT  |  |
|     | SLAB SURFACES: POWER FLOAT  |  |
| 5.4 | SIDES OF GROUND BEAMS TO BE SHUTTERED   |  |

- [illegible]

No	Date	Details	Chd	App
Revisions				

Project:			
JW14468- MALE ABLUTION STAND BY FACILITY			
Description:			
CONCRETE FOUNDATION REBAR LAYOUT&DETAILS			
Issued For:			
TENDER			
Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	1 OF 1	October 2024
Project No:		Drawing No:	
JW14468		STRUCT-10	
		Revision:	
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