



<p>Engineer:</p> <div style="text-align: center;"> KEON CONSULTING ENGINEERS TECHNO DESIGNS Civil Structures & Transport Engineers </div> <p>TECHNO ENGINEERING DESIGNING 127-128 Street View Austin Midrand TEL: (011) 945 2532 CELL: 077 301 8811 E-MAIL: engineer@technodesigns.co.za OFFICE: johannesburg@technodesigns.co.za WEBSITE: www.technodesigns.co.za</p>	<p>Client:</p> <div style="text-align: center;"> Johannesburg Water Turbine Hall 65 Nile Piers Street, Newtown, Johannesburg </div> <p>JOHANNESBURG WATER</p>	<p>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 PRECEDENCE.</p> <p style="text-align: center;">ON ORIGINAL</p> <div style="text-align: center;"> 0 10 15 20 25 30 40 50MM </div> <p>Engineer: T Chikwata Pr Eng (20140009)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Drawn By:</th> <th>Designed By:</th> <th>Checked By:</th> </tr> <tr> <td>K.M</td> <td>T.Chikwata</td> <td>T.Chikwata</td> </tr> </table> <p>Signature: _____ Date: SEPT 2023</p>	Drawn By:	Designed By:	Checked By:	K.M	T.Chikwata	T.Chikwata	<p>CONCRETE NOTES:</p> <ol style="list-style-type: none"> SETTING OUT AND GENERAL THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS. ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND. REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER. THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT. FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS. STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.N.S 1200G AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 1200K. CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, RD/OPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLE ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL. FOUNDATIONS ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST. 	<p>CAST</p> <ol style="list-style-type: none"> NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 15mm BLINDING CONCRETE IS TO BE INSPECTED UNDER ALL FOUNDATIONS, REINFORCED STRIP FOOTINGS AND GROUND BEAMS. ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 15mm CONCRETE AT THE CONTRACTORS EXPENSE. BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES = 150kPa WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF CONCRETE CONCRETE CONCRETE CHARACTERISTIC 28 DAY STRENGTH: 25MPa / 15mm STRIP FOOTINGS: 25MPa / 19mm SURFACE BEDS: 30MPa / 19mm CONCRETE SLABS & BEAMS: 30MPa / 19mm COLUMNS: 30MPa / 19mm CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTIC ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING. 	<ol style="list-style-type: none"> ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 1200G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS 3 UNLESS SPECIFIED OTHERWISE. CONCRETE SURFACES ARE TO BE SUBMITTED TIMELY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL. REINFORCEMENT CHARACTERISTIC STRENGTH: MLD STEEL: 250N/mm² HIGH YIELD STEEL: 450N/mm² ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION. LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER UNLESS OTHERWISE NOTED. MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS - 300mm UNLESS OTHERWISE NOTED. THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN MAINTAINED THROUGHOUT THE CONSTRUCTION. IT IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT. COVER TO REINFORCEMENT: CHARACTERISTIC STRIP FOOTINGS: 50mm COLUMNS AND WALLS: 30mm SUSPENDED BEAMS: 30mm SLAB DECKING: 30mm 	<ol style="list-style-type: none"> SUSPENDED BEAMS: 30mm CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION. FORMWORK AND PROPPING STRIPPING TIMES FOR: COLUMN AND WALL SHUTTERING: 15 DAYS BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER. FLAT SLABS: 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER. PROPPING TIMES FOR: SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER CANTILEVER SLABS AND BEAMS: 21 DAYS SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL. NO DEPROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER. CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS AND WALLS: OFF SHUTTER BEAMS AND SLAB SOFFIT: OFF SHUTTER TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE BEDS: POWER FLOAT SIDES OF GROUND BEAMS TO BE SHUTTERED. 	<p>Refer To Drawing No:</p> <p style="text-align: center;">Key Plan:</p> <p>Issue For: TENDER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Size</th> <th>Scale</th> <th>Sheet No</th> <th>Original Date</th> </tr> <tr> <td>A1</td> <td>As Shown</td> <td>2 OF 3</td> <td>SEPT 2023</td> </tr> </table> <p>Project No: C01486 Drawing No: PS-08 Revision: T0</p>	Size	Scale	Sheet No	Original Date	A1	As Shown	2 OF 3	SEPT 2023
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