



Engineer:		Client:	
<div><div><div><div>KEON</div><div>CONSULTING ENGINEERS</div><div><div><div><div></div><div>TECHNO</div><div>DESIGNS</div></div><div>Civil Structural &amp; Transport Engineers</div></div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div></div></div></div></div>		<div><div><div><div></div><div>JW</div></div><div><div><div><div></div><div>JW</div></div><div><div><div><div></div><div>JW</div></div><div><div><div><div></div><div>JW</div></div></div></div></div></div><div><div><div><div></div><div>Johannesburg Water</div></div></div></div></div></div></div></div>	
<div><div><div><div>TECHNO ENGINEERING</div><div>30 David Street Glen Austin Midrand</div><div>645 5th Avenue Newton</div><div>TEL: (071) 405 2532</div><div>CELL: (072) 301 8811</div><div>EMAIL: info@technodesigns.co.za</div><div>OFFICES JOHANNESBURG</div><div>WEBSITE: www.technodesigns.co.za</div></div><div><div><div><div>KEON CONSULTING ENGINEERS</div><div>30 David Street Glen Austin Midrand</div><div>645 5th Avenue Newton</div><div>TEL: (071) 405 2532</div><div>CELL: (072) 301 8811</div><div>EMAIL: info@technodesigns.co.za</div><div>OFFICES JOHANNESBURG</div><div>WEBSITE: www.technodesigns.co.za</div></div></div></div></div></div>		<div><div><div><div><div><div><div></div><div>Johannesburg Water</div></div><div><div><div><div></div><div>Johannesburg Water</div></div></div></div><div><div><div><div></div><div>Johannesburg Water</div></div></div></div></div><div><div><div><div></div><div>Johannesburg Water</div></div></div></div></div></div></div></div>	
<div><div><div><div><div><div><div></div><div>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 OVER ORIGINAL DRAWINGS.</div><div><div><div><div></div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>25</div><div>30</div><div>40</div><div>50MM</div></div></div></div></div></div></div></div></div></div>		<div><div><div><div><div><div><div></div><div>CONCRETE NOTES:</div><div>1.1 SETTING OUT AND GENERAL</div><div>1.2 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.</div><div>1.3 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.</div><div>1.4 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.</div><div>1.5 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.</div><div>1.6 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.</div><div>1.7 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 1200D.</div><div>1.8 CONSULT RELEVANT STANDARDS, MECHANICAL, ELECTRICAL &amp; PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTFALL, RWOPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.</div><div>2.0 FOUNDATIONS</div><div>2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.</div></div><div><div><div><div><div><div><div></div><div>CAST</div><div>NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 15mm BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES. REINFORCED STRIP FOOTINGS AND GROUND BEAMS ARE TO BE CAST ON APPROVED EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 15mm CONCRETE AT THE CONTRACTORS EXPENSE.</div><div>BACKFILL OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.</div><div>ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES = 150kPa.</div><div>STRIP FOOTINGS TO BE CONCRETE</div><div>CONCRETE CHARACTERISTIC 28 DAY STRENGTH: 25MPa / 15mm</div><div>STRIP FOOTINGS: 25MPa / 15mm</div><div>TOP MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED</div><div>SUSPENDED SLABS &amp; BEAMS: 30MPa / 15mm</div><div>COLUMNS: 30MPa / 15mm</div><div>CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN ENGINEERS FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.</div><div>ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.</div></div><div><div><div><div><div><div><div></div><div>3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 1200G PERMISSIBLE DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.</div><div>CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMELY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.</div><div>REINFORCEMENT</div><div>CHARACTERISTIC STRENGTH: 250N/mm2</div><div>HIGH YIELD STEEL: 450N/mm2</div><div>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.</div><div>LAP LENGTH TO REINFORCING TO BE MINIMUM 50 X SMALLER BAR DIAMETER. UNLESS OTHERWISE NOTED</div><div>MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB SURFACE BEDS</div><div>THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE ANY NUMBER OF SHUTTER BEAMS AND SLAB SOFFIT: OFF SHOOT TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE BEDS: POWER FLOAT SIDES OF GROUND BEAMS TO BE SHUTTERED.</div></div><div><div><div><div><div><div><div></div><div>SUSPENDED BEAMS</div><div>CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.</div><div>STRIPPING TIMES FOR: COLUMN AND WALL SHUTTERING: 15 DAYS</div><div>BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER</div><div>FLAT SLABS: 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER</div><div>PROPPING TIMES FOR: SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER</div><div>CANTILEVER SLABS AND BEAMS: 21 DAYS</div><div>SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL</div><div>NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER</div><div>CONCRETE FINISHES: UNLESS NOTED OTHERWISE</div><div>COLUMNS AND BRACKETS (IF CALLED TO BE FOR INSPECTION OF THE REINFORCEMENT:</div><div>50mm</div><div>50mm</div><div>30mm</div><div>30mm</div><div>30mm</div><div>30mm</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>	
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<div><div><div><div><div><div><div></div><div>Signature:</div><div>October 2024</div></div><div><div><div><div></div><div>Signature:</div><div>October 2024</div></div><div><div><div><div></div><div>Signature:</div><div>October 2024</div></div></div></div></div></div></div></div></div></div></div>		<div><div><div><div><div><div><div></div><div>No</div><div>Date</div><div>Details</div><div>Revisions</div></div><div><div><div><div></div><div>Chd</div><div>Appd</div></div></div></div></div></div></div></div></div>	