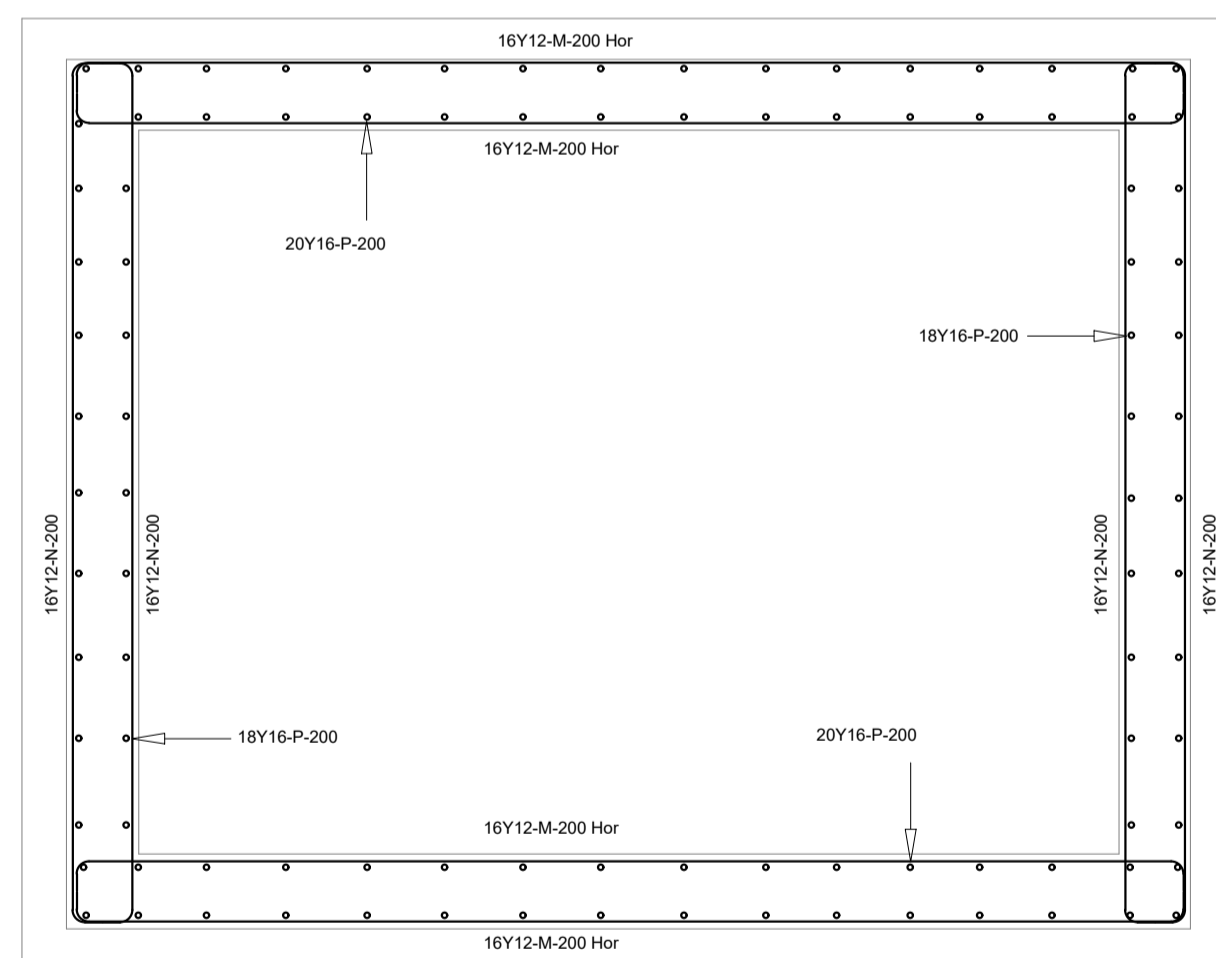




COVER PLAN
SCALE 1:25



PLAN VIEW
SCALE 1:25

BENDING SCHEDULE
ISOLATION VALVE CHAMBE

<p>Engineer:</p> <div style="text-align: center;"> KEON CONSULTING ENGINEERS TECHNO DESIGNS <small>Civil Structural & Transport Engineers</small> </div> <p>TECHNO DESIGNS ENGINEERING 23, 24 Street, East Rand Midrand TELEPHONE (011) 405 2532 CELL (072) 301 8611 EMAIL engineer@technodesigns.co.za OFFICE JOHANNESBURG WEBSITE www.technodesigns.co.za</p>	<p>Client:</p> <div style="text-align: center;"> Johannesburg Water <small>Turbinet House 40, 60 Ntsebi Piliso Street, Newtown, Johannesburg</small> </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> <p>Engineer: T. Chikwata Pr Eng (20140009) <i>Chikwata</i></p> <p>Drawn By: M. Mulumba Designed By: T. Mapitumo Checked By: T. Chikwata</p> <p>Signature: _____ Signature: _____ Signature: <i>Chikwata</i></p> <p>Date: September 2023 Date: September 2023 Date: September 2023</p>	<p>CONCRETE NOTES:</p> <p>1.0 SETTING OUT AND GENERAL</p> <p>1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.</p> <p>1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.</p> <p>1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.</p> <p>1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.</p> <p>1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.</p> <p>1.6 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 12000 AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 12000.</p> <p>1.8 CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, R/WPDS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS' WRITTEN APPROVAL.</p> <p>2.0 FOUNDATIONS</p> <p>2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.</p> <p>2.2 CAST:</p> <p>2.2.1 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 10mm BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS AND PERPUSAL.</p> <p>2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 10mm CONCRETE TO REPAIR AND REPAIR CONCRETE EXPENSE. BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATION.</p> <p>2.4 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.</p> <p>2.5 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.</p> <p>2.6 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAP'S 150mm UNLESS OTHERWISE NOTED.</p> <p>2.7 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED AND IS AS SHOWN. OFF SHOOTER TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE DEEPS: POWER FLOOR SIDES OF GROUND BEAMS TO BE SHUTTERED.</p> <p>2.8 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.</p> <p>3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 12000 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS B UNLESS SPECIFIED OTHERWISE.</p> <p>3.5 CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMELY TO ENGINEER AND FOR PERPUSAL, RECORDS, COMMENT AND APPROVAL.</p> <p>4.0 REINFORCEMENT</p> <p>4.1 CHARACTERISTIC STRENGTH:</p> <p>MILD STEEL: 250N/mm² HIGH YIELD STEEL: 450N/mm²</p> <p>4.2 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.</p> <p>4.3 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.</p> <p>4.4 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAP'S 150mm UNLESS OTHERWISE NOTED.</p> <p>4.5 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED AND IS AS SHOWN. OFF SHOOTER TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE DEEPS: POWER FLOOR SIDES OF GROUND BEAMS TO BE SHUTTERED.</p> <p>4.6 COVER TO REINFORCEMENT:</p> <p>CHARACTERISTIC STRENGTH:</p> <p>50mm: 30mm 100mm: 30mm 150mm: 30mm</p> <p>BASES:</p> <p>COLUMNS AND WALLS:</p> <p>SUSPENDED SLABS:</p> <p>30mm 40mm 50mm</p> <p>4.7 SUSPENDED BEAMS: 30mm</p> <p>4.8 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.</p> <p>5.0 FORMWORK AND PROPPING</p> <p>5.1 STRIPPING TIMES FOR:</p> <p>COLUMN AND WALL: 7 DAYS IN HOT WEATHER BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.</p> <p>5.2 PROPPING TIMES FOR:</p> <p>SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.</p> <p>5.3 CANTILEVER SLABS AND BEAMS: 21 DAYS</p> <p>5.4 (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL). NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.</p> <p>5.5 CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS AND WALLS: OFF SHOOTER BEAMS AND SLAB SOFFIT: OFF SHOOTER TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE DEEPS: POWER FLOOR SIDES OF GROUND BEAMS TO BE SHUTTERED.</p>	<p>Refer To Drawing No:</p> <p>Key Plan:</p> <p>Project: JW14406-LINBRO PARK TOWER (WITH ASSOCIATED WORKS)</p> <p>Description: ISOLATION VALVE CHAMBER REBAR LAYOUT, SECTIONS & DETAILS</p> <p>Issued For: TENDER</p> <p>Size: A1 Scale: As Shown Sheet No: 2 OF 2 Original Date: Sept 2023</p> <p>Project No: C01486 Drawing No: CP-25 Revision: TO</p>
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