



<p>ENGINEER:</p> <p>KEON CONSULTING ENGINEERS</p> <p>TECHNO DESIGNS</p> <p>23rd Street Glenview Apts Tel: 011 2552 3232 Fax: 011 2552 3232 Email: engineer@technodesigns.co.za Website: www.technodesigns.co.za</p>	<p>CLIENT:</p> <p>KEON CONSULTING ENGINEERS</p> <p>JOHANNESBURG WATER</p> <p>5th Avenue Office Park 44th Street, Newmarket Tel: 011 277 4330/1818 Fax: 011 277 4330/1818 Email: engineer@keon.co.za Website: www.keon.co.za</p>	<p>PROJECT:</p> <p>JW14471-RENOVATIONS AT NORTHERN WORKS LABORATORY</p> <p>DESCRIPTION:</p> <p>NOTICE BOARD FRAME DETAILS</p>	<p>Refer To Drawing No:</p> <p>Key Plan:</p> <p>Scale:</p> <p>Sheet No:</p> <p>Original Date:</p> <p>As Shown:</p> <p>1 OF 1</p> <p>November 2024</p>	<p>Project No:</p> <p>JW14471</p> <p>Drawing No:</p> <p>STRUCT-07</p> <p>Revision:</p> <p>0</p>	<p>CONCRETE NOTES:</p> <p>1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.</p> <p>2. ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.</p> <p>3. REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.</p> <p>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>5. SET SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.</p> <p>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 1200G AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 1200G.</p> <p>7. CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER WATERLIES, RWPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS' WRITTEN APPROVAL.</p> <p>8. FOUNDATIONS</p> <p>9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.</p> <p>10. CAST</p> <p>11. NO FOUNDATIONS ARE TO BE CAST IN PLANT MATERIAL. A 50mm SLAB LAYER OF 10MPa FINE GRINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.</p> <p>12. ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.</p> <p>13. ALL REINFORCEMENT SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATION.</p> <p>14. ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES = 100kPa.</p> <p>15. STRIP FOOTINGS = 100kPa.</p> <p>16. CONCRETE CHARACTERISTIC 28 DAY STRENGTH: 30MPa / 19mm.</p> <p>17. STRIP FOOTINGS: 25MPa / 19mm.</p> <p>18. SUSPENDED SLABS & BEAMS: 30MPa / 19mm.</p> <p>19. COLUMNS: 30MPa / 19mm.</p> <p>20. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR APPROVAL. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BEDS CHAP FOOTINGS: 50mm / 30mm.</p> <p>21. ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.</p> <p>22. SUSPENDED SLABS: 30mm / 30mm.</p> <p>23. CASTING</p> <p>24. ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 1200G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II / 0.</p> <p>25. CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMOUSLY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.</p> <p>26. REINFORCEMENT</p> <p>27. CHARACTERISTIC STRENGTH: 250N/mm² / 400N/mm².</p> <p>28. MILD STEEL</p> <p>29. 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>30. LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.</p> <p>31. NO DE-BRACING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.</p> <p>32. CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS AND WALLS: OFF SHOOTER PLASTER REAL COAT. CONCRETE SLAB: TOP OF SUSPENDED SLABS: POWER FLOAT SURFACE BEDS: TO BE SHUTTERED.</p> <p>33. SUSPENDED BEAMS: 30mm / 30mm.</p> <p>34. CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.</p> <p>35. FORMWORK AND PROPPING</p> <p>36. APPROVAL</p> <p>37. COLUMNS AND WALL SHUTTERING: 15 DAYS.</p> <p>38. BEAM SHUTTERING: 15 DAYS.</p> <p>39. 12 DAYS IN HOT WEATHER.</p> <p>40. 12 DAYS IN COLD WEATHER.</p> <p>41. 14 DAYS IN HOT WEATHER.</p> <p>42. 7 DAYS IN COLD WEATHER.</p> <p>43. PROPPING TIMES FOR: 14 DAYS IN HOT WEATHER.</p> <p>44. 21 DAYS IN COLD WEATHER.</p> <p>45. CANTILEVER SLABS AND BEAMS: 21 DAYS.</p> <p>46. (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMOUSLY TO ENGINEER FOR APPROVAL).</p> <p>47. NO DE-BRACING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.</p> <p>48. CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS AND WALLS: OFF SHOOTER PLASTER REAL COAT. CONCRETE SLAB: TOP OF SUSPENDED SLABS: POWER FLOAT SURFACE BEDS: TO BE SHUTTERED.</p>
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