



## OUTLET PIPELINE LONGITUDINAL SECTION

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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 ON ORIGINAL

0 5 10 15 20 25 30 40 50MM

Engineer: T.Chikwata P.Eng (20140009)

Drawn By: M.Mulumba

Designed By: T.Mapfumo

Checked By: T.Chikwata

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

Date: September 2023

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

Date: September 2023

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

Date: September 2023

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:

1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS

1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.

1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.

1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.

1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.

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. 1200C AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S. 1200D.

1.8 CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, RWOPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.

2.0 FOUNDATIONS

2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.

2.2 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.

2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 15mm CONCRETE AT THE CONTRACTOR'S EXPENSE.

2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

2.5 ALL REMAINING BEARING PRESSURE UNDER: CONCRETE BASES = 1500Pa. STRIP FOOTINGS = 1000Pa.

3.0 CONCRETE

3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH: BASES: 20MPa / 15mm. STRIP FOOTINGS: 30MPa / 15mm. SUSPENDED SLABS & BEAMS: 30MPa / 15mm. COLUMNS: 30MPa / 15mm.

3.2 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 CHARACTERISTICS.

3.3 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.

3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S. 1200G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.

3.5 CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.

4.0 REINFORCEMENT

4.1 CHARACTERISTIC STRENGTH: MILD STEEL: 250N/mm². HIGH YIELD STEEL: 450N/mm².

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.

4.3 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.

4.4 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.

4.5 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.

4.6 STRIP FOOTINGS: BASES: 50mm. COLUMNS AND WALLS: 50mm. SUSPENDED SLABS: 30mm.

5.0 PROPPING TIMES FOR: SLABS AND BEAMS: 15 DAYS. CANTILEVER SLABS AND BEAMS: 21 DAYS (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMEOUSLY TO ENGINEER FOR APPROVAL).

5.1 NO DEPROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.

5.2 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.

Refer To Drawing No:

Key Plan:

Project: JW14406-LINBRO PARK TOWER (WITH ASSOCIATED WORKS)

Description: PROFILE FOR OUTLET WATER PIPELINE

Issued For: TENDER

Size: A1. Scale: As Shown. Sheet No: 1 OF 1. Original Date: Sept 2023

Project No: C01486. Drawing No: CP-29. Revision: T0