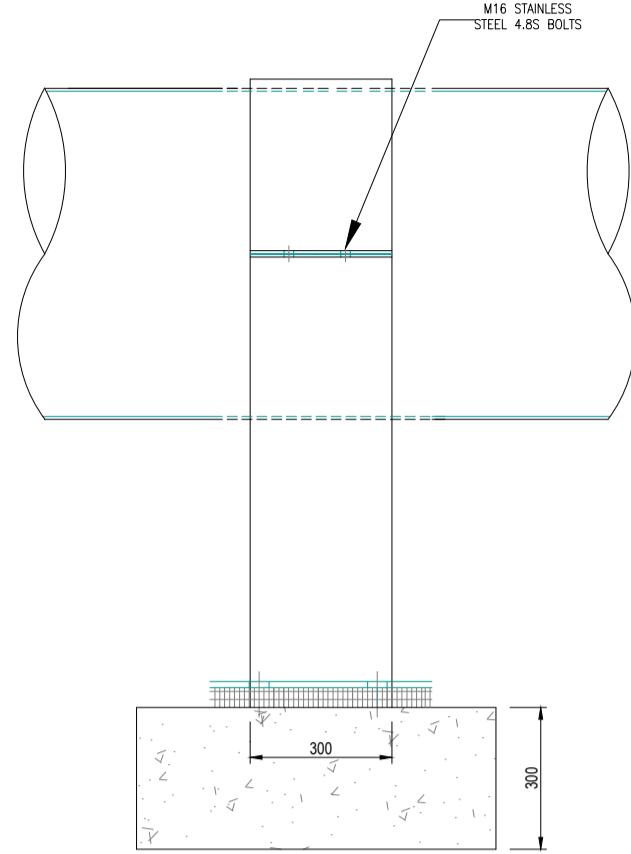
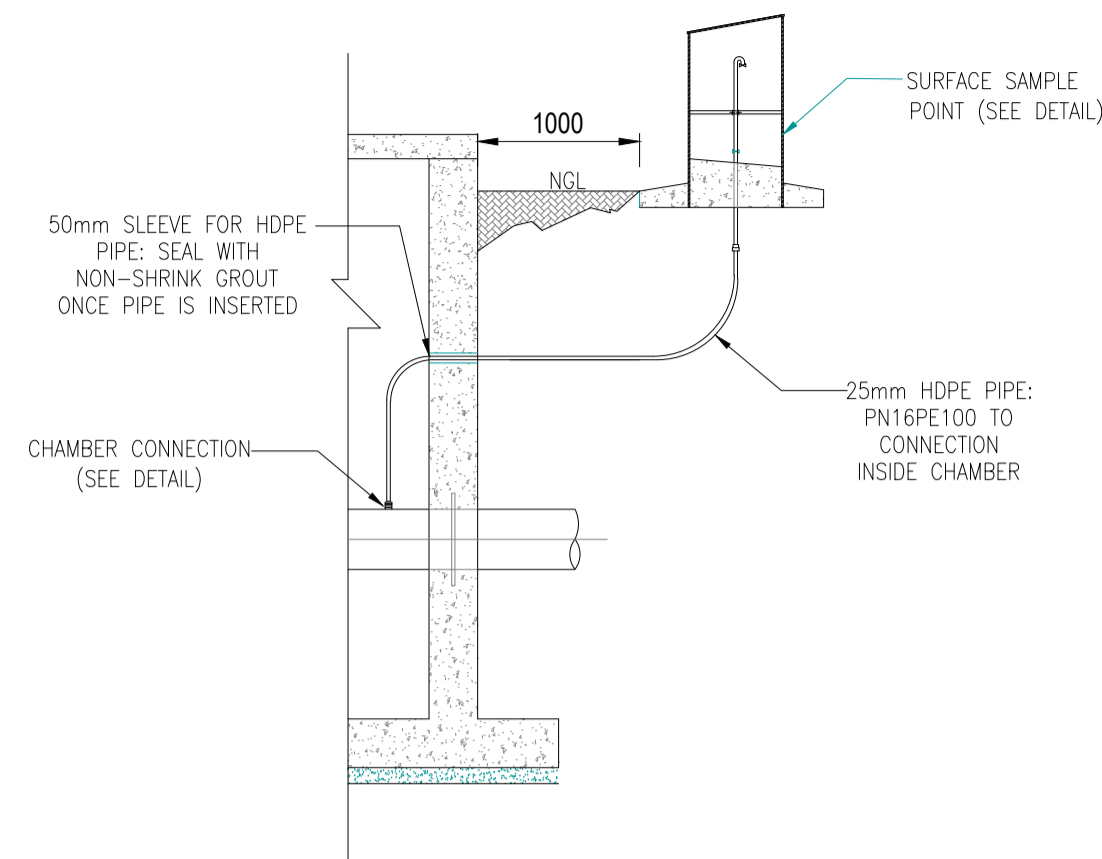


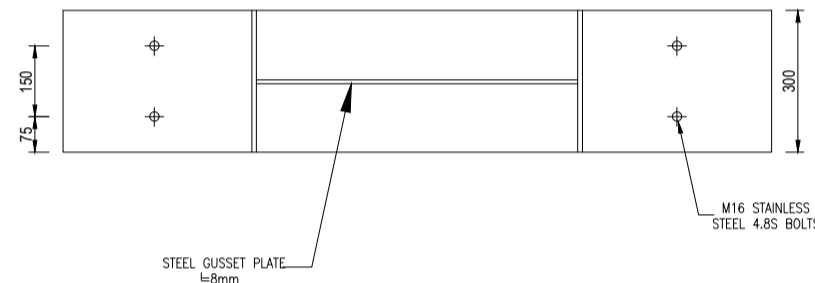
DETAIL 3: PIPE SUPPORT CONCRETE - DN650/500/300 PIPE
SCALE 1:10



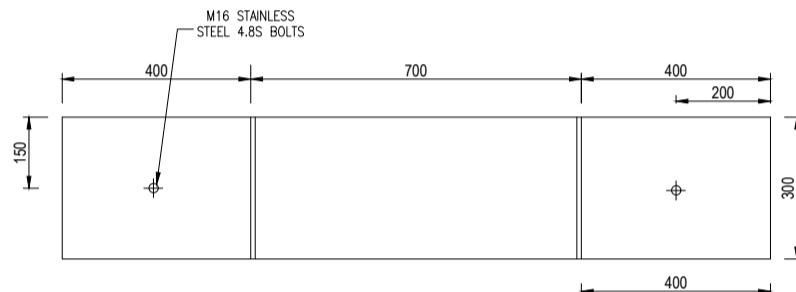
ELEVATION DD
SCALE 1:10



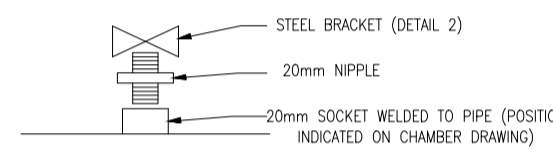
WATER QUALITY TEST POINT
SCALE 1:50



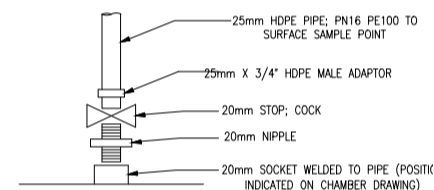
ELEVATION EE
SCALE 1:10



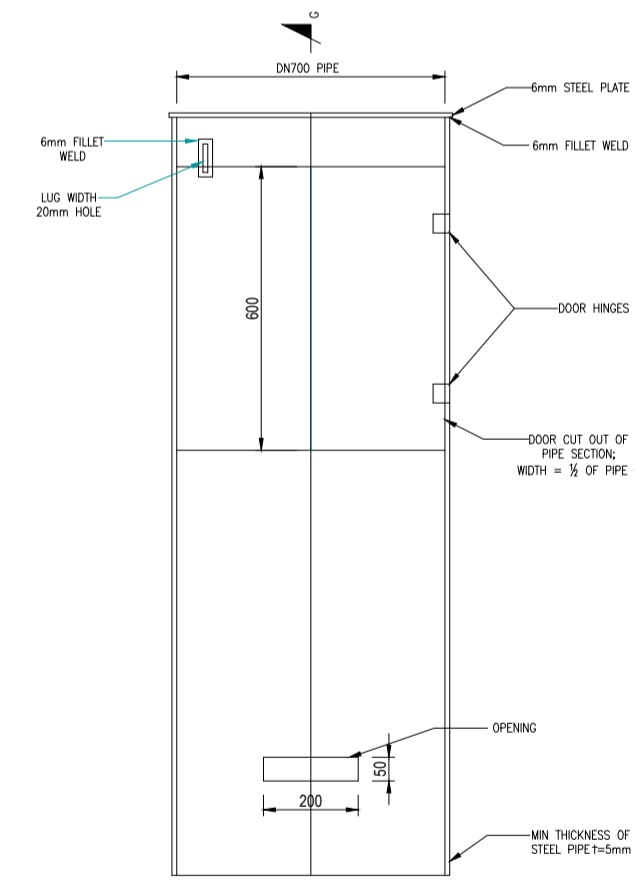
ELEVATION FF
SCALE 1:10



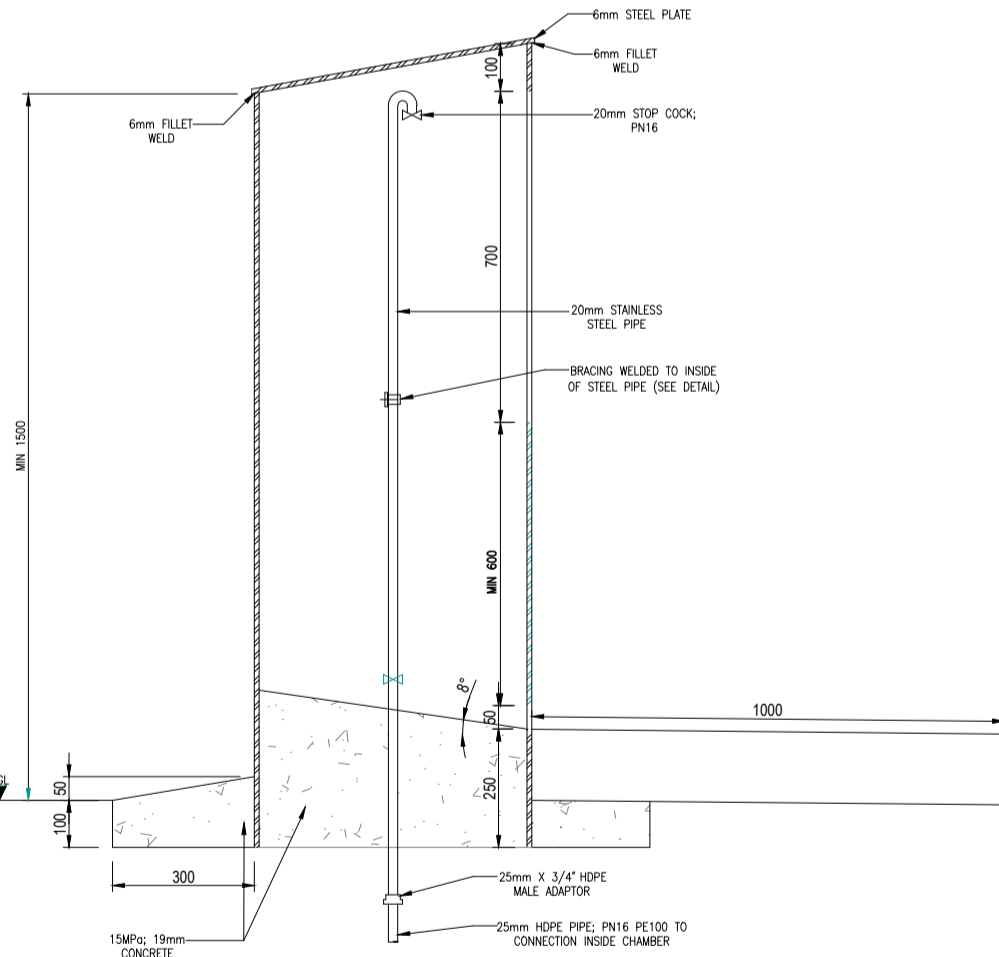
PRESSURE LOGGING POINT
SCALE 1:5



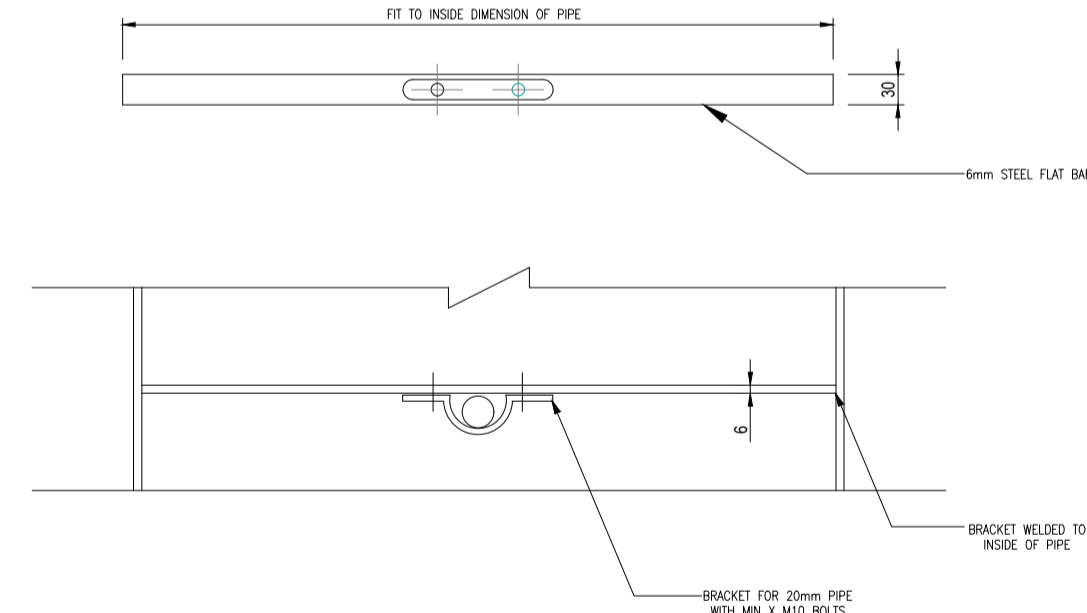
WATER QUALITY TEST POINT
CHAMBER CONNECTION
SCALE 1:5



FRONT VIEW
SCALE 1:10



SECTION GG
SCALE 1:10



BRACING DETAIL
SCALE 1:5

Engineer:

KEON CONSULTING ENGINEERS

35 Dams Street Glen Austin
Midrand
CELL (072) 301 8811
EMAIL: info@keon.co.za
WEBSITE: www.keon.co.za

Client:

JOHANNESBURG WATER

Turbine Hall,
65 Niemi Place Street,
Newtown, Johannesburg

Techno Designs Engineering

5th Avenue Office Park,
64th 5th Avenue Newton
Park Elizabeth
TELEPHONE: +27 413630189
WEBSITE: www.technodesigns.co.za

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.

Engineer:

T. Chikwata Pr Eng (20140009)

Drawn By: M. Mulumba
Designed By: T. Mulumba
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 ARCHITECTS' 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. 1200S 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, RWDPs 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.

CAST:

2.2 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 18mm 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 / 18mm 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 ALLOWABLE BEARING PRESSURE UNDER:

CONCRETE BASES = 150kPa
100kPa.

3.0 CONCRETE

3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:

BASES: 25MPa / 18mm
STRIP FOOTINGS: 25MPa / 18mm
SUSPENDED SLABS & BEAMS: 30MPa / 18mm
COLUMNS: 30MPa / 18mm

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.

4.0 REINFORCEMENT CHARACTERISTIC STRENGTH:

4.1 MILD STEEL: 250N/mm²
4.2 HIGH YIELD STEEL: 450N/mm²

4.3 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.

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

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

4.6 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.

4.7 COVER TO REINFORCEMENT:

BASES: 50mm
COLUMNS AND WALLS: 50mm
SUSPENDED SLABS: 30mm

4.8 SUSPENDED BEAMS: 30mm

4.9 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.

5.0 FORMWORK AND PROPPING

5.1 STRIPPING TIMES FOR:

COLUMN AND WALL SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.
4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.

5.2 PROPPING TIMES FOR:

SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.

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

5.4 NO DEPROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.

5.5 CONCRETE FINISHES: UNLESS NOTED OTHERWISE

5.6 COLLUMS AND WALLS: OFF SHUTTER
BEAMS AND SLAB SOFFIT: OFF SHUTTER
SURFACE BEDS: POWER FLOAT
SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:

Key Plan:

No	Date	Details	Chd	Appd
		Revisions		

Project:

JW14406-LINBRO PARK TOWER
(WITH ASSOCIATED WORKS)

Description:

PIPE SUPPORT AND TEST POINT
DETAILS

Issued For:

TENDER

Size: A1
Scale: 1:50
Sheet No: 1 OF 1
Original Date: Sept 2023

Project No: C01486
Drawing No: CP-05
Revision: D0