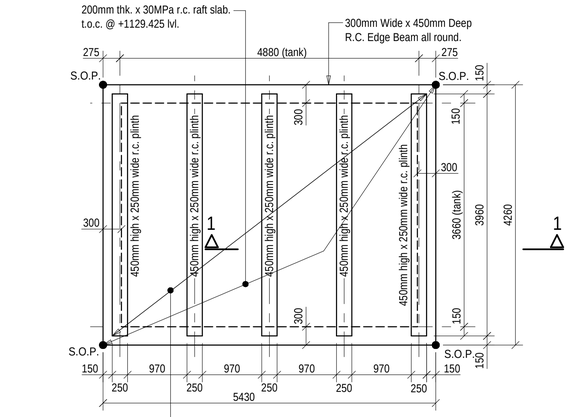
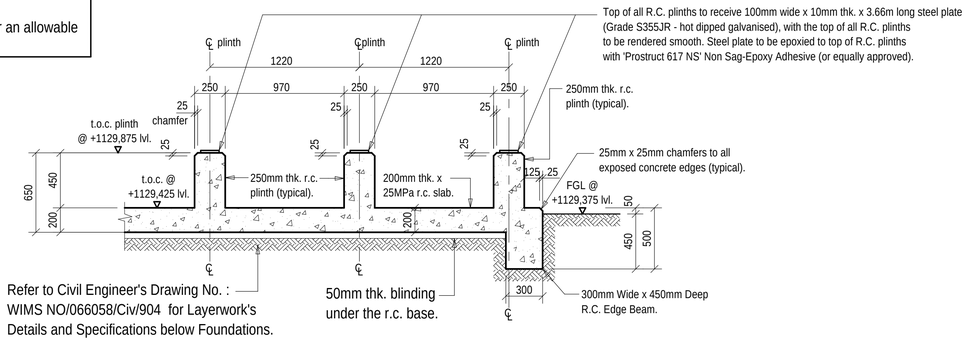


Rectangular Steel Water Storage Tank Size :
4,88m long (4 panels)
3,66m wide (3 panels)
2,44m high (2 panels)
(ABECO Tank or equally approved).

PLAN OF RAFT FOUNDATION

Notes :
1. See Civil Engineers layout for location of Rectangular Steel Water Storage Tank Structure.
2. All foundation excavations to be in accordance with Civil Engineer's details and specifications. Refer to Civil Engineer's Drawing No. WIMS NO/066058/Civ/904 for Layerwork's Details and Specifications.
3. Concrete plinth to be 30 MPa and concrete ground slab to be 25 MPa concrete strength.
4. 25mm x 25mm chamfers to all r.c. plinth edges and all exposed concrete edges.
5. The foundations have been designed for an allowable soil bearing pressure of 100 kN/m².



SECTION 1 - 1

General Notes :

1. All levels and dimensions to be checked on site.
2. This drawing is to be read in conjunction with the Architectural drawings.
3. All concrete work is to comply with SABS 1200G.
4. Concrete Class :-

a) Ground Beams	= 25 MPa
b) Bases	= 25 MPa
c) Walls	= 30 MPa
d) Slabs	= 25 MPa
e) Surface Bed Slabs	= 25 MPa
f) Raft Slabs	= 25 MPa
g) Blinding	= 10 MPa

5. Cover to reinforcement :-
   As indicated on drawings.
6. All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
7. All reinforcing fixing is to be inspected by the Engineer prior to casting of concrete.
8. Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
9. All structural concrete is to be cured for a minimum of five days.
10. All concrete plaster and brickwork plaster interfaces to receive 'V'-joints.
11. The Engineer requires 24 hours notice for all inspections.

FOR TENDER

REVISION SCHEDULE

NO.	DATE	DESCRIPTION	REV. BY
T1	08/10/2024	FOR TENDER	S.N.

DEPARTMENT OF HEALTH:

INFRASTRUCTURE DEVELOPMENT

CHIEF ENGINEER: MR E. CHIRO: CIVIL / STRUCTURAL

SIGNATURE ..... DATE .....

PROJECT MANAGER: MR T. DLAMINI

SIGNATURE ..... DATE .....

CLIENT DEPARTMENT SIGNATURES:

FACILITY STAMP:

FACILITY MANAGER: .....

INFRASTRUCTURE MANAGER: .....

GENERAL MANAGER: .....

CHECKED BY CONSULTANT:

NAME: B.X. RAMAN (PrEng 202001095)

SIGNATURE ..... DATE .....

CONSULTANT:

MAP AFRICA CONSULTING

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KWAZULU-NATAL PROVINCE
PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

MIDLANDS REGION

PROJECT:

WIMS No. : 066058
DRIEFONTEIN CLINIC
SEWER TREATMENT PLANT UPGRADE

DRAWING DESCRIPTION:

RECTANGULAR STEEL WATER TANK SUPPORT STRUCTURE
STRUCTURAL LAYOUT & DETAILS

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
1:50 1:25	08/10/2024	Y.R.	M.N.

CONSULTANT DRAWING NUMBER: 484 / 304

REVISION: T1

DOPW DRAWING NUMBER: WIMS NO/066058/STR/304

STAMPED BY PLANS APPROVAL COMMITTEE: