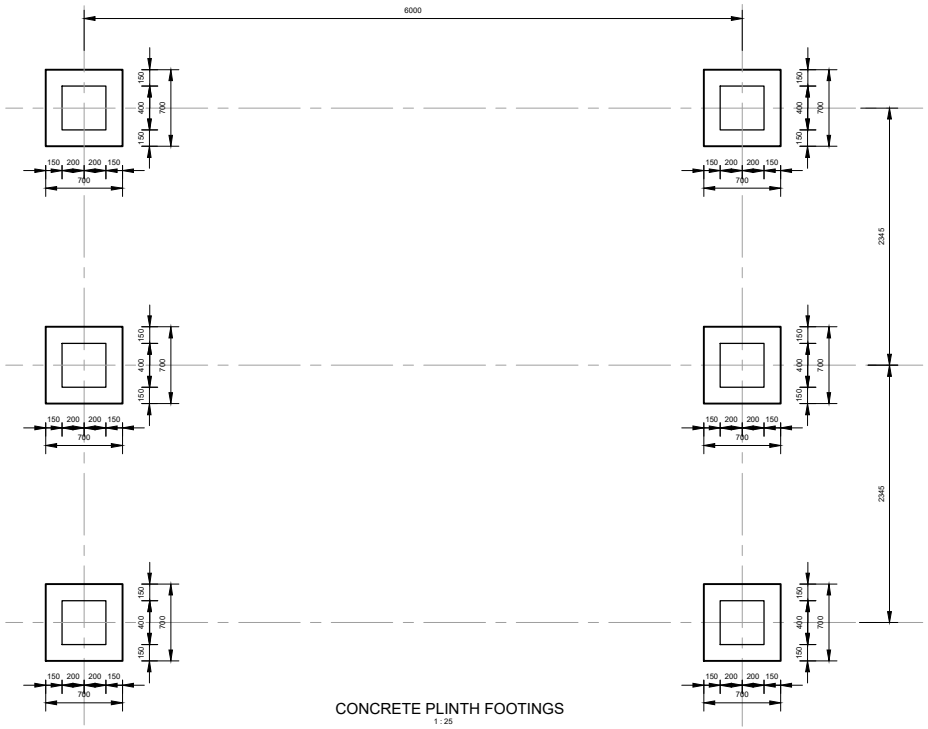
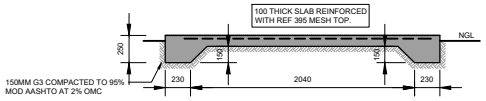
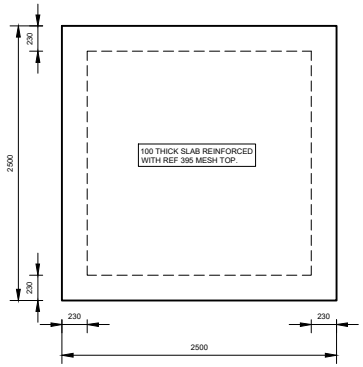


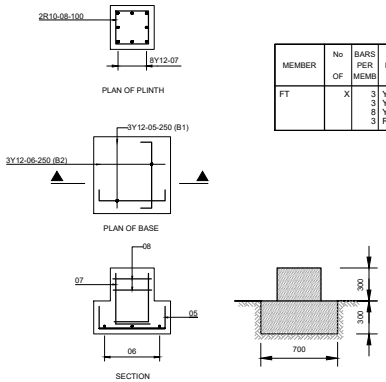
CONCRETE PLINTH FOOTINGS
1 : 25



(2 No.) TANK FOUNDATION DETAIL
1 : 25



(2 No.) -TANK FOUNDATION DETAIL
1 : 25



RC DETAIL FOR FT
1 : 25

MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM-BER	MARK	S C	BENDING A	B	C	D	E/r
FT	X	3	Y12	800	3	05	35	600				
		3	Y12	800	3	06	35	600				
		8	Y12	750	8	07	37	314	175			
		3	R10	1350	3	08	60	300	300			

FOUNDATION SIZES ARE PRELIMINARY. EXACT DETAILS ARE TO BE CONFIRMED ONCE CONTAINER AND TANK SIZES ARE CONFIRMED.

ADDITIONAL NOTES :

ALL DEVIATIONS FROM ENGINEER'S DRAWING TO BE CONFIRMED BY ENGINEER PRIOR TO CONSTRUCTION

ALL DRAINAGE AND WATERPROOFING TO ARCHITECT'S DETAIL

ALL FOUNDATION DEPTHS TO BE DETERMINED BY ENGINEER ON SITE.

FOUNDATIONS NOT TO ENCROACH OVER BOUNDARY

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWING

BARS ARE TO BE CUT/BENT TO SUIT ON SITE

BARS MARKED B-ADD TO BE PLACED FIRST.
(B1-ADD INDICATES BOTTOM 1 ADDITIONAL)
(B2-ADD INDICATES BOTTOM 2 ADDITIONAL)

ABBREVIATIONS USED :

EF	-	each face	NF	-	near face
FF	-	far face	T	-	top
B	-	bottom	EW	-	each way
ABR	-	alternate bars reversed			
ABS	-	alternate bars staggered			

ALL EXPOSED CONCRETE SLABS AND BEAMS BEARING ON BRICKWORK TO HAVE A SLIP JOINT MADE UP OF 2 SHEETS OF 3mm THICK MASONITE WITH SMOOTH FACES ABUTTING EACH OTHER AT TOP OF BRICK-CONCRETE INTERFACE.

MIN. LAP LENGTH = 45 x BAR DIAMETER

ALL BRICKWORK TO HAVE A MIN. COMP. STRENGTH OF 14MPA

ALL NON-LOAD BEARING BRICKWORK SHALL HAVE A 10mm GAP AT SLAB SOFFIT LEVEL TO BE CHAULKED LATER.

A BLINDING LAYER (50 MM MAX.) TO BE PROVIDED

COVER BLOCKS TO BE PROVIDED

ALL EXPOSED SHARP CORNERS TO BE CHAMFERED 25mm.

Generai

This drawing to be read in conjunction with all relevant architects and engineers drawings.

Dimensions must not be scaled or assumed. After notification, discrepancies or missing dimensions will be corrected in writing by the engineer.

Levels shown to foundations are provisional and will be finalised by the engineer on site.

Foundations have been designed for a permissible bearing pressure of 50 KN/m²

Reinforcement shall comply with SANS 920 and be bent to SANS 282.

Symbols :
R = Mild steel bars with characteristic strength of 250 MPa..
Y = Hot rolled or cold worked high yield steel bars with characteristic strength of 450 MPa.
(Only reinforcement fabricated under the SANS mark shall be deemed to comply with SANS requirements).

Concrete (where applicable the following shall apply)

All concrete work shall conform with the latest amended issue of :
SANS 1200 : Standard Specification for concrete and
SANS 10100 : The structural use of concrete.

A set of six cubes must be made for every fifty cubic meter (or portion thereof) of concrete poured on a specific day, 3 of the cubes must be tested at seven days, and the balance must be available for testing at 28 days.
The test results are to be submitted to the engineers immediately and should any problems be anticipated no shuttering is to be stripped until further notice from the engineer.

All concrete shall be vibrated according to specification. All concrete must be cured continuously for seven days after pouring and effectively protected against dehydration.

All exposed concrete to be chamfered 25mm x 25mm

Shuttering and propping may only be struck after thelapse of the following times:
(Ordinary Portland Cement in normal weather conditions)

Position of Shuttering Props	Striking Time Days
Beam side walls & unloaded columns	2
Slab soffits without removal of slab props	4
Beam soffits without removal of props	7
Props unloaded slabs	10
Props unloaded beams	14

Beams and slabs must be poured with the following cambers.

Beam or Slab Element	Camber
Cantilever beams and slabs	Span/150
Other beams and slabs	Span/400

Concrete strengths are specified in terms of clauses in SANS 1200.
For the various elements they are as follows

Structural Element	Concrete Grade
Blinding	15
Bases/footings	25
Beams / Slabs	25
Walls	25
Columns	25

The structure has been designed for the following imposed floor loads:

Structure	Loading(kN/m²)
Live Load	2.5

Concrete cover to reinforcement (in mm) - Unless Otherwise Specified

Bases/footings	- 50	Strap beams	- 50
Pilecap (top and sides)	- 50	Columns	- 50
Pilecap (bottom)	- 75	Beams	- 50
Ground beams	- 50	Slab (top steel)	- 50
Retaining walls (earth face)	- 50	Slab (bottom steel)	- 50

DRAWING NO.	REFERENCE
REFERENCE DRAWINGS	

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.

2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.

3.FOUNDATION SIZES ARE PRELIMINARY. EXACT DETAILS ARE TO BEFIRMED ONCE CONTAINER AND TANK SIZES ARE CONFIRMED.

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUE FOR CONSTRUCTION	MG	SS	PM	27/10/2023
0A	ISSUE FOR TENDER	MG	SS	PM	13/10/2023

REVISIONS

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CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE
OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	MG		
CHECKED	SS		
DESIGNED	MG		
CHECKED	PM		

PR.ENG. / PR.TECH./PR. ARCH		
NAME	P.MAHARAJ	DATE
SIGNATURE		
REG. NUMBER	200970238	
SCALE :	SHOWN	A1

Transnet Port Terminals
(TRADING AS TRANSNET PORT TERMINAL) : REG. NO. XXXXX
202 ANTON LEMBEDE
DURBAN CENTRAL
4001

JOZINI MUNICIPALITY

MANGWAZANA SECONDARY SCHOOL
CONTAINER KITCHEN AND WATER TANKS

CONCRETE PLINTHS
LAYOUTS, SECTIONS AND DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
- - - - - -	- -	- - -	S	L A	0 0 0 3	0 1	0 0	TD