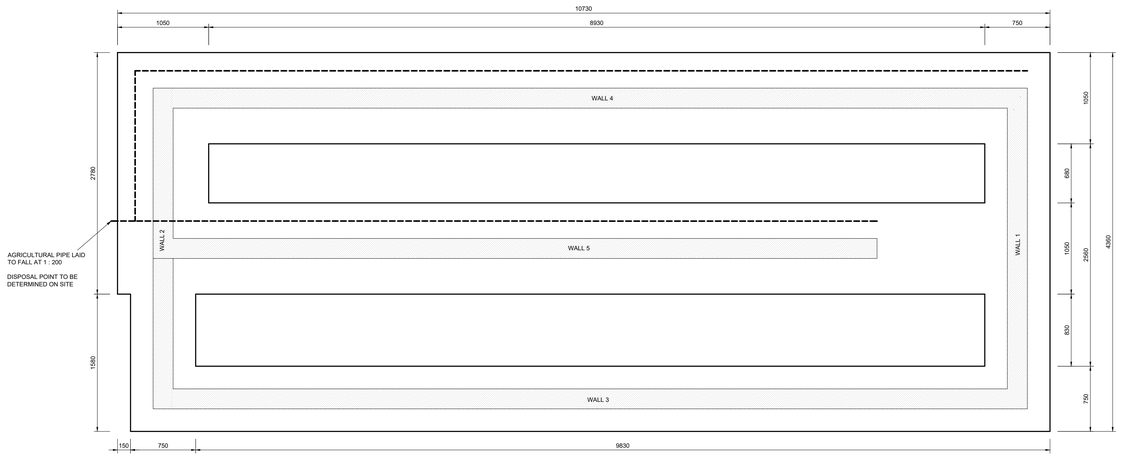
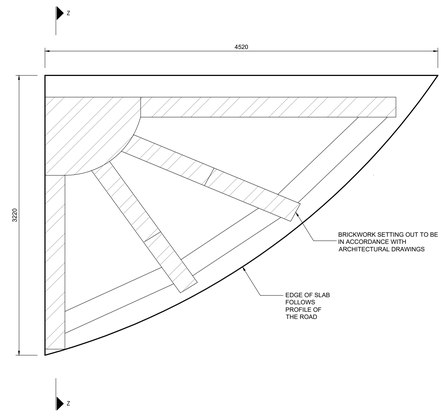


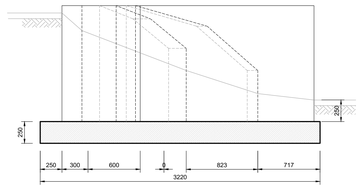
FOUNDATION LAYOUT OF RAMP

1 : 25



FOUNDATION LAYOUT FOR TERRACE END

1 : 25



SECTION Z - Z

1 : 25

NOTE :

Layerworks for terrace staircases and paving as per civil engineers details.

NOTE A:

Prior to commencement of any excavation works on the site, The Contractor shall appoint an accredited Soils Testing firm to undertake Dynamic Cone Penetrometer (DCP) testing at six positions near the proposed construction area.
The appointed firm shall prepare a testing report that shall reflect estimated allowable bearing capacity data for corresponding depths below ground for each testing location.
The testing report shall be reviewed and accepted by the Project Structural Engineer prior to commencement of any excavation works.

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 confirmed with 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			
MJ	-	movement joint			
IJ	-	isolation joint			

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.

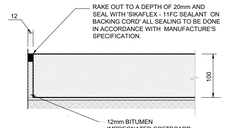
Min. lap length = 45 x bar diameter.

All brickwork to have a min. comp. strength of 14mpa.

A blinding layer (50 mm min.) to be provided.

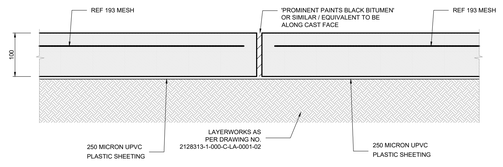
Cover blocks to be provided.

All exposed sharp corners to be chamfered 20mm.



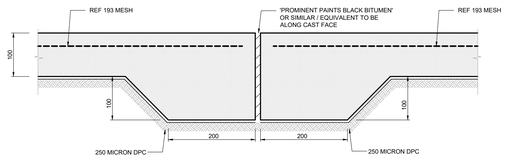
TYPICAL ISOLATION JOINT DETAIL (IJ)

1 : 5



TYPICAL MOVEMENT JOINT DETAIL (MJ)

1 : 5



TYPICAL EDGE THICKENING DETAIL

1 : 5

2128313-1-000-S-LA-0002-01-0B	NORTH GROYNE: CONCRETE RAMP SURFACE BED, FOUNDATIONS AND DETAILS
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

General

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 project manager.

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
All chamfered edges to be 20mm x 20mm.
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

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 pour 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 to ensure strength results are achieved. Cube tests to be done by independent laboratory and accepted by the supervisor.

The test results are to be submitted to the supervisor immediately and should any problems be anticipated no shuttering is to be stripped until further notice from the supervisor.

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

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

Structural Element	Concrete Grade (MPA)
Blinding	15
Bases/footings	30
Beams / Slabs	30
Walls	30
Columns	30

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

Structure	Loading(kN/m²)
Live Load	5

Concrete cover to reinforcement (in mm)
Unless Otherwise Specified

Bases/floodings	-	50
Pilecap (top and sides)	-	50
Pilecap (bottom)	-	75
Ground beams	-	50
Retaining walls (earth face)	-	50
Strap beams	-	50
Columns	-	50
Beams	-	50
Slab (top steel)	-	50
Slab (bottom steel)	-	50
Slab (Mesh)	-	30

0A	ISSUED FOR TENDER	PM	17-04-2024

REVISIONS

CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE
DRAWN	PM		05 08 22
CHECKED	KP		05 08 22
DESIGNED	PM		05 08 22
CHECKED	KP		05 08 22

PR.ENG. / PR.TECH./PR. ARCH		
NAME	K. PILLAY	DATE
SIGNATURE		05 08 22
REG. NUMBER	20130647	

Transnet National Ports Authority
237 MAHATMA GANDHI ROAD
DURBAN
P.O. BOX 38163, DURBAN
TEL: 031 361 1696
FAX: 0866 770815

PORT OF DURBAN

DURBAN HARBOUR ENTRANCE - NORTH GROYNE PROMENADE TERRACING AND CARPARK UPGRADE:
CONCRETE RAMP & TERRACE END FOUNDATIONS AND DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
SCALE : AS SHOWN	A0	X	D	N	E	0	4	8	1	0	0	0	S	L	A	0	0	0	2	0	1	0	A	PM