

INTEGRATED MANAGEMENT SYSTEM

Procedure Developed in line with ISO Standard Requirements

**Ruwacon (PTY) Ltd****Doc no:**

D-MST CNS-002

Effective Date:

02/09/2022

Revision no:

A

Revision date:

22/10/2023

Document retention

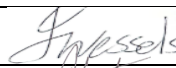
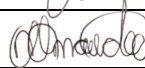
5 Yrs.

Method Statement – Concrete of Foundations/Basis**Contract Details**

Contract Name	ARBOUR NATURE ESTATES
Contract Client	SIGNITURA
Contractor	Ruwacon Construction Pty (Ltd)

Revision History

Rev	Review Date	Revision Detail	Reviewed by

Approvals	Name	Signature	Date
Area Manager	THEO WESSELS		29/03/2024
Construction Manager	PHILIP VENTER		29/03/2024
Health & Safety	MICHAEL NAUDE		29/03/2024
Distribution list for method statement:	Area Manager, Construction Manager, Client		

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Method Statement – Concrete of Foundations/Basis

What is to be done? <i>Give the precise scope of the work</i>	• Setting out of concrete foundation bases • Demarcation of the working area. • Excavate/remove rocky areas to design depth requirements. • Compact in-situ material by construction rammers – i.e., compaction test. • Fix steel for foundation bases • Place formwork around foundation bases and add stays. • Cast concrete for foundation bases • Pour curing compound on the foundation bases for curing and strip shutters on the foundation bases after 24 hours. • Clean area of spilled concrete and dispose of construction rubble. • Backfill foundation area with bedding material and compact to 90% MOD AASHTO.
Who is to do it and supervise it? <i>Give the number and type of personnel — including any specific skills, fitness levels, training or qualifications required.</i>	• Construction Manager-1 • Foreman-1 • Skilled Labour-12 • Health & Safety Officer-1 • Quality Controller – 1 • Surveyor -1 • Tipper Trucks • TLB • Construction rammer - 2
How is the work to be done safely?	
Safety: <i>Define where to stand and any demarcation zones</i>	• All non-essential personnel to remain clear of the area. • Area to be made safe prior to work commencing. • Incidents and accidents to be reported immediately. • First aid station to include clean potable water for cleaning wounds. • Tools will be inspected daily and will be tagged with a quarterly colour coding • Risk assessment to be done prior to commencement of work • When an unconventional way of pouring concrete is used, i.e. using a 'banana bucket' – refer to RA-22 for safe working procedures. • Rebar caps to be installed on all sharp exposed rebar. • DSTI to be done daily. • PTO's to be done once per week per supervisor as per SHE plans • For traffic control - refer to traffic management plan (D-TRF-PLAN-001) • MSDS to be discussed before any concrete works commence • The concrete will be casted from a ready-mix truck- refer to method statement of Hazardous Solid and Liquid Waste Management on Site (D-ENV-MST-002)) on site. Deep excavation signage's to be placed at entrance for awareness towards the excavation, demarcation netting

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	must be install to prevent unwanted entry towards the excavation “Access control”	
Mandatory PPE and additional PPE required:	Mandatory PPE:	Task-specific PPE:
	Gloves (<i>suitable for task</i>) Hard hat High-visibility clothing Boots (<i>with steel toecap and mid-sole</i>) Eye protection	Rubber boots (<i>For wet conditions</i>) Rubber gloves Dust masks Ear Protection
Environmental:	• Movement of plant only in demarcated area, controlled by means of demarcation poles. • Place drip trays / spill mats under stationary plant. • Use drip trays when filling diesel • All diesel spillages must be picked up and placed in the hazardous wheelie bin, in sealed bags and documented, spill kit must be easily accessible in the event of a spillage. – Refer to Hazardous Solid and Liquid Waste Management on Site (D-ENV-MST-002) • Dust suppression to be done with water cart. • In the event of an encounter with animals – refer to SHE Plan. • For waste control – refer to waste management plan (D-ENV-MST-017) • For ablution facilities – refer to the management of ablution facilities (D-ENV-MST-004) one toilet per every 15 employees will be provided.	

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Method Statement – Concrete of Foundations/Basis**The precise method and sequence of operations**

(Including any 'hold' points)

1) SETTING OUT OF FOUNDATIONS/BASIS

a) The following people are to set-out the boundary for the area to be excavated.

- a) Surveyor
- b) General labours

2) AREA DERMACATION

c) Demarcate the area to raise awareness that there are construction activities in progress

3) TRAFFIC ACCOMMODATION

a) Place flag people on the sides of the road where construction will take place to convert traffic and direct construction vehicles.

4) EXCAVATION

a) Excavate/remove rocky areas to specified dimensions within the set out-area and allow for 500mm working space on either side.

The following machinery will be used:

- i) TLB / Hydraulic rock breaker (in case of hard rock encounter)
- ii) Tippers

5) COMPACT IN-SITU MATERIAL –

a) Compact in-situ material to achieve 150 Kpa bearing pressure, by making use of:

- i) Construction rammer
- ii) Water truck
- iii) LAB technician – Troxler

6) CAST CONCRETE FOUNDATIONS/BASIS

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	a) Fix steel in accordance with drawing for foundation bases as per the bending schedule. Place the steel within the set-out area and assemble it. The rebar will have a concrete cover of 30mm from the top and 50mm from sides and bottom. b) Place oiled formwork on the set-out area for foundation bases. Different types of formwork material (steel, wood and peri) will be used to suit the structure. To keep the formwork intact and keep/prevent the concrete fines from seeping out of the shutters; clamps will be used on steel and peri shutters and nails will be used on wooden shutters. The formwork will then be supported by steel pegs or wooden pegs to ensure that the shutters do not kick and stay intact. In order to ensure that the correct dimensions of the foundation bases are built, manual tape measuring will be conducted and the level of the top of concrete will be marked by nails on the inside of the formwork. c) Cast concrete foundation bases with the slump of concrete ranging from 80 – 120, of which test cubes will be taken. The concrete will then be vibrated with pokers in order to remove air pockets and pack the aggregate particles together, of which the density and strength of the concrete will increase. The surface will be finished off with wooden float. The surface will then be poured with curing compound to help the curing and shutters will be stripped after 24 hours. If there is honeycombing, the surface where honeycombing is will be chipped and treated whilst the concrete is still curing (green).
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Specific limitations or constraints upon the work: <i>Examples are adverse weather or out-of-sequence working</i>	- No work during inclement weather or flood risk. - No work outside the servitude.
Systems for prompt and appropriate removal of any waste generated:	All general waste will be disposed of. Refer to waste management plan. (D-ENV-MST-017)