## G1.1.2 G1.1

G1.1.4 G1.1.3 The Contractor shall ensure that all subcontractors, relevant site personnel and super are in possession of these notes and have familiarised themselves with the content.

G1.1.7 G1.1.6 G1.1.5

The onus rests with the Contractor to produce work which conforms in quality and accuracy of detail to all the requirements of the specifications and drawings. The Contractor shall, at his own expense, institute a quality control system and provide experienced Engineers, Fechnicians, Foremen, Surveyors and other technical staff, together with all transport, instruments and equipment, to ensure adequate supervision and positive control of the works

C1.3.6

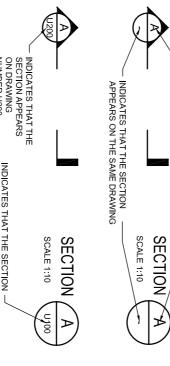
G1.2.1 G1.2

G1.1.9

G1.1.8

ctions & Detail Refe

All levels on dra



- INDICATES THAT THE SECTION APPEARS ON DRAWING NUMBER U200 INDICATES THAT THE SECTION IS REFERENCED BACK TO DRAWING NUMBER U100 DETAIL 01 DETAIL
SCALE 1:10

STRUCTURAL CONCRETE neral Concrete

C1.1

General construction
National Building Regula el bars for concrete reinforcement able Codes and Standards SANS 50197-1
SANS 1083
SANS 878
SABS method 863 / SANS 5863
SANS 920
SANS 1024

C1.2.1

1.2.1.2 All concrete mixes for structural work shall be designed by a competent concrete technologist in an approved laboratory. Proof of these mixes will be submitted to the Engineer for his records.

Aggregates with a high modulus of elasticity shall be used. The type and origin of aggregate shall be submitted to the Engineer prior to construction.

Type / Location	28-day Fcu <sub>MPa</sub>	Stone
Blinding	15	19
Foundations	30	19
Columns	30	19
Suspended slabs	30	19
Surface beds - General	25	19
Surface beds - Industrial	35	19
Beams	30	19
Walls & retaining walls	30	19

C1.3.1

No pumping of conci

C1.3.2 red for 7 days by a m

C1.3.3 The position and method of forming of all construction joints shall be submitted to the Enging approval prior to construction.

C1 3.5

All suspended concrete slabs to be adequately surveyed at intervals as agreed, before removal of support work. Results to be forwarded to the Engineer for his records.

C1.3.7

Back-Propping:
C1.3.8.1 Extent of back-propping and sequencement of works.
C1.3.8.2 For pre-stressed and post-tension sequence with the designer to encements for many sequence with floor 1 at the botter.

C1.3.9 One set of concrete test cubes shall be prep These shall be made daily for every cast. rete finish shall be as per

neral:
one cube to be tested at 7 days
three cubes to be tested at 28 days

t-tensioned slabs: three cubes to be tested at 3 days \* three cubes to be tested at 28 days

\*These three cubes to be left on cast slab to simulate actual curing conditions on site. Sides of these cubes to be protected to prevent excessive drying out.

INDICATES THAT THE -DETAIL IS REFERENCED BACK TO DRAWING NUMBER U100

C1.3.12 No kickers to be cast for col n props, cantilever props -tensioned slab props (other than parking slabs) -tensioned parking slab props

C1.3.14 C1.3.13 Refer to Architects', Electrical- and Mechanical Engineers' drawings to verify positions of dow duct penetrations, recesses, other services as required by them, prior to casting of concrete. For retaining walls laterally supported by cor days after casting of slab.

C1 3 15

oncentration of a large number of sleeves or services to be cast into a concrete element shall not lowed. Grouping shall be in small bundles of three, should the diameter allow this, and spaced at inimum 100mm c/c, all as discussed and agreed with the Engineer before concreting.

C1.3.16

C1 3 18 C1.3.19 No cores will be allowed without prior approval from the Structural Engir

C1.3.20

C1.3.21

Inless otherwise noted or indicated on Architects' details and specifications.

The Contractor shall be responsible for the including formwork and support work. ted on layo

Span devided by 200 (SPAN/200) Span devided by 500 (SPAN/500)

ble Codes and St

C2.3

Sawn joints in surface beds shall be cut as soon as the concrestrength or within 4 to 48 hours of casting, whichever is first.

C1.4

cable Codes

R denotes plain round mild steel bars of strength 250 MPa. Y denotes high yield deformed steel bars of strength 450 MPa. Z denotes types of steel not covered by R and Y. This may include cold drawn cold-reduced to increase yield stress, mild steel bars (plain or deformed) cold-vyield stress, etc.

• all steel is properly fixed as per the layout drawings,
• spacer blocks are positioned,
• shuttering is cleaned out,
• reinforcement has been checked by the responsible con
• the inspection sheet has been completed by the contractions

Welding of high-yield (Y) reinforcement is not allowed. Mild steel (R) only if instructed or expressly agreed to in writing by the Engineer.

: Number of bars
: High yield steel
: Bar diameter
: Bar mark
: Bar spacing c/c, mm

These notes are suppl tary and should be read in con

Refer to Section C1.2

Execution of Works

The flooring contractor shall confirm all levels and tolerances of the surface bed layer works before commencement of works. Allowable finished surface tolerances for subbase to be +0mm and -25mm. Positive tolerances above zero are not permitted. Any areas not conforming to these tolerances shall be reported to the Engineer by the flooring contractor prior to casting of floor. (Note: Layer works to Civil Engineers' specifications)

 ENTER WITH AIR TEMPERATURE.
 MOVE UP TO RELATIVE HUMIDITY
 MOVE RIGHT TO CONCRETE
 TEMPERATURE MOVE DOWN TO WIND VELOC
 MOVE LEFT, READ APPROX.
 RATE OF EVAPORATION. L.R. MARAIS, B.D. PERRIE (2009). CONCRETE INDUSTRIAL FLOORS ON THE GROUND. C&CI PUBLICATION. FIG. 7.7. PP 121. RATE OF EVAPORATION, kg/m²/hr

These notes are suppl tary and should be read in conjunction with Section C1

C3.1

C3

Refer to Section C1.2 ution of Works

coundation levels shown on the Structural Engineer's drawings are depending on the Geotechnical Engineer's findings on site.

า shall be cast เ

Summary of information to be submitted to Engineer ouilt levels of all fou

C4.1

The following important inforr

ted to the Engineer, for his records.

2

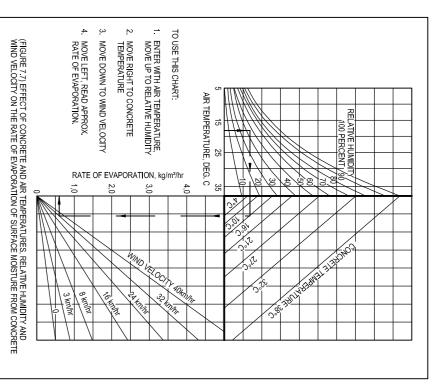
C4.3

nsion stress results: and stress sequence to be

od for curing of con

ey results of as-built pile founda

st of the bottom layers nd lowest of the bottom layers



NOTES: DRAWINGS MUST NOT BE BE CONFIRMED ON SITE. SCALED.

MEASUREMENTS

T0

DRAWINGS TO BE READ WITH THE GENERAL NOTES DRAWING AND ALL TYPICAL DETAIL DRAWINGS WHERE APPLICABLE.

DRAWINGS TO BE READ WITH THE ARCHITECTS DRAWINGS AND ALL DISCREPANCIES TO BE REPORTED TO THE RESPONSIBLE ENGINEER IMMEDIATELY.

DRAWINGS TO BE READ WITH THE PROJECT SPECIFICATIONS AND APPLICABLE SANS 1200 CODES.

AS-BUILT RECORD

VERSION/AMENDMENTS

REPAIR LERATO OF 491 PARK RDP **HOUSES** 

STANDARD NOTES SHEET 1 AND DETAILS

ORIGINAL DRAWING SHEET SIZE:



PO Box 29 The Innovation Hub Pretoria 0087 Tel:+ 27 (0) 12 842 8700 Fax:+ 27 (0) 12 843 9000/9001

DRAWN A EIS

APPROVED ON BEHALF 2334.50.02.SUA.14.A001 E-mail: pretoria@bigengroup.co www.bigengroup.com D Strydom
ECSA Reg. No: 1.0

JRVEYED

100A.41.AU2.S0.02.4252

APPROVED: CLIENT OR ASSIGNEE