



- General Notes:**
- All dimensions and levels are to be checked on site and where applicable to match the existing structure.
  - Any discrepancies or contradictions on the drawings are to immediately be reported to the Engineer.
  - All dimensions are in millimeters. Drawings are not to be scaled.
  - All dimensions shown on the drawings are to be set out on site on the horizontal plane.
  - A complete set of drawings to be available on site at all times.
  - The contractor is responsible for the correct setting out on site and to ensure that the setting out details are in accordance with the drawings.
  - All drawings are to be read in conjunction with the architects details and drawings.
  - The contractor is responsible for checking that the reinforcement is fixed and maintained in the correct position before and during the casting of concrete.
  - Finished structure is to comply with the latest amendments of SANS 10400.
  - No concrete may be cast without the approval from the Engineer and a minimum of 48 hours' notice is to be given to the Engineer prior to an inspection on site.
  - All reinforcing steel to comply with SANS 9920 as follows:
    - R - Plain round mild steel bars of strength 250MPa
    - Y - High yield deformed steel bars of strength 450MPa
  - All reinforcing steel is to be bent in accordance with SANS 282:2004.
  - Symbols:
    - T - Top
    - M - Middle
    - B - Bottom
    - STG - Staggered
    - EW - Each way
    - HOR - Horizontal
    - ARR - Alternate bars reversed
    - STG - Staggered
    - NTS - Not to Scale
  - Minimum splicing to reinforcing steel bars are as follows:
    - Y10 - 400mm
    - Y12 - 480mm
    - Y16 - 640mm
    - Y20 - 800mm
    - Y25 - 1000mm
    - Y32 - 1280mm
    - Y40 - 1600mm
  - Minimum cover to reinforcing steel bars unless otherwise stated on drawings are as follows:
    - Column bases - 75mm
    - Strap foundations - 50mm
    - Raft foundations - 40mm
    - Staircases - 40mm
    - Columns - 40mm
    - Slabs - 40mm
    - Bears - 40mm
    - Walls - 40mm
  - Max slump for all concrete to be 75mm unless otherwise stated on drawings.
  - All concrete to be 25/19 MPa unless otherwise stated on drawings. Contractor to provide Engineer with test results for 3 x test cubes. All concrete to be vibrated when placed on site.
  - Concrete to be cured on site by daily watering for a period of seven (7) days.
  - All concrete works supporting brickwork to be cured for a minimum of three (3) days prior to any construction of brickwork commencing.
  - Minimum compressive strength of bricks shall be 7MPa in accordance with SANS 10400 unless otherwise stated on the drawings.
  - Clay bricks to be thoroughly wetted before use.
  - A slip joint comprising of 2 by layers 3 ply malthoid must be provided between all loadbearing brickwork and the concrete structure.
  - The specification for fill material to be as follows:
    - Contain no organic material.
    - Contain no stone with a dimension of larger than two thirds of the layer being compacted.
    - A PI of not exceeding 10 and a CBR of at least 15% at 93% MOD A.A.S.H.T.O. and be capable of being compacted to 98% MOD A.A.S.H.T.O.
    - Swell at 100% MOD A.A.S.H.T.O shall not exceed 1.5%.
  - A sample of fill material together with test results to be provided to Engineer prior to construction.

Removal of formwork & supports from concrete:	Days:
Beam sides	2
Deck plates - props left under	7
Beam soffits - props left under	12
Removal of slab props	17
Removal of beam props	21

NB: The above does not include any adjustment for loading (excluding normal loading) being applied above the structural element.

No.	Date	Description	By
Revision Details			

**SINAKHO CONSULTING**  
PROJECT DEVELOPMENT CONSULTANTS

44 GREY ST., P.O. BOX 9676, QUEENSTOWN, 5320  
TEL.: 045 838 3939/40, FAX.: 045 838 3941

93 WESTERN AVE., P.O. BOX 13101, VINCENT, EAST LONDON, 5217  
TEL.: 043 726 4389, FAX.: 043 726 4391

E-MAIL: info@sinakhoconsulting.co.za

**PROUDLY SOUTH AFRICAN**

Client: CSIR

Project: Mt Fletcher Springs Protection

Drawing Title: Typical Stand Tap Details

Designed: N. Weyer	Scale: 1 : 10
Drawn: N. Weyer	Size: A2
Checked: D. de Wet	Date: 25.04.2019
Drawing No.: S190011-WD-02	Revision: 0

- CONSTRUCTION NOTES:**
- GMS - GALVANISED MILD STEEL
  - APPLY 2 No. COATS OF BITUMEN AT AREAS WHERE STEEL IS IN CONTACT WITH CONCRETE FOR COMMON PENETRATION, PRIOR TO CASTING CONCRETE.
  - 'CALCAMITE' OR SIMILAR APPROVED STEP IRONS. DRILL 2 No. Ø30mm x 75mm LONG HOLES (PER STEP IRON) EPOXY STEP IRON IN WITH ABE EPIDERMIX 318. ALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

FOR INFORMATION