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| Rev | Drawn | Comments   | Date        |
|-----|-------|--|-------------|
| 1   | SS    | Record of presentation at client meeting on 22nd September 2020. | 22/09/2020  |
| 2   | BSP   | For Engineers Sign Off input prior to Tender                     | 09 Oct 2020 |
| 3   | BPA   | Tender.  | 16 Oct 2020 |

### Extension Raft Slab 1 : 50

**Foundations - (Raft-Ground Floor Slab)**

Ground conditions are believed unsuitable for traditional strip foundations. Foundation excavations to be inspected by Structural Engineer and Building Control Officer prior to the pouring of footings and final size and depth to be adjusted in accordance with recommendations.

Final depth of foundations to be approved by the Building Inspector & shall take into account any influencing effect of tree roots on or adjacent to site.

Dig out ground to provide a min 175mm compacted Type 1 sub-base and a 50mm sand blinding above.

Lay a Visqueen DPM above the sand blinding with and link with the appropriate DPMs, DPCs and jointing tapes in accordance with the Manufacturers installation instructions.

The 150mm thick raft foundation is to be formed with a Grade RC40 concrete mix in accordance with BS 500 using a 20mm maximum aggregate, with a minimum cement content of 325kg/CU.M and a maximum free water/cement ratio of 0.55. Slab to be reinforced with 1 layer of A393 mesh top and 1 layer of A252 mesh bot. Refer to the Structural Engineers drawings and calculations for the final raft design and reinforcement schedule.

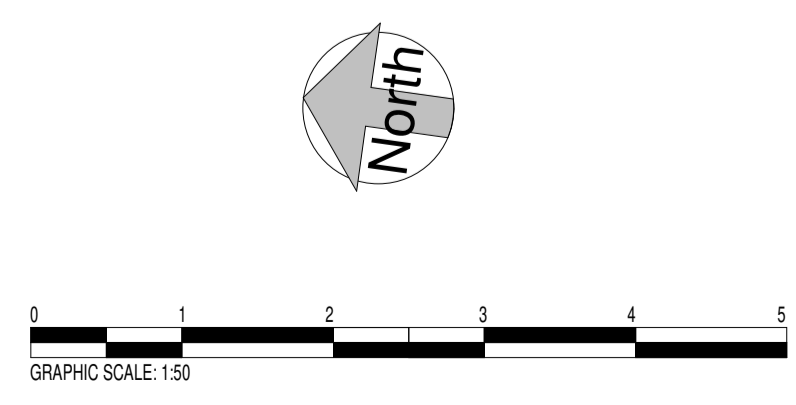
Note the depth of hardcore to be increased to 225mm beneath foundation strips to perimeter where there is a risk of frost.

Provide 100mm dense blockwork and 3 no. courses of red engineering brickwork below dpc level to conceal the end of raft toe. Fill cavity with a weak mix concrete up to 150 mm below dpc in cavity struck off towards external wall.

Lay 150mm of insulation board suitable for use with u/f heating above the raft (see U value schedule for insulation specification) and 30mm thick insulation turned up at the perimeter to avoid cold bridging.

Lay a separation membrane and pour a 60mm or 75mm thick fibre reinforced screed.

Load bearing internal walls that are taken down to the raft foundation level are to be built up off thickened floor slab. Refer to Structural Engineers drawings for detail.



Tender - For SE Sign Off

This drawing is to be read in conjunction with Structural Engineers drawings and neither should be used in isolation

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Client  
**Nantwich Town Council**

Project  
**Proposed Alterations and Extension to Nantwich Civic Hall, 4 Market St, Nantwich CW5 5NF**

Title  
**Proposed Foundation Setting Out Plan**

Package **1 Sub Structure**  
 Dwg Stage **Dwg Status**  
**RIBA Stage 4A: Technical Design**

Date **September 2020** Drawn **SS/BSP**  
 Scale @A1 **1 : 50** Checked **BSP/KJ**

| Project No           | Originator | Block | Level | Type | File | Role | Element | Drawing No | Rev |
|----------------------|------------|-------|-------|------|------|------|---------|------------|-----|
| 20-051-BPA-CH-00-DR- | A1-001     | T 3   |       |      |      |      |         |            |     |

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