

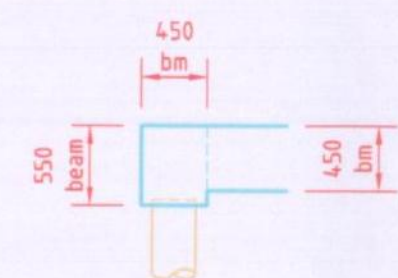
**General Arrangement of Foundations**

Scale 1:50

Unless otherwise noted:

- All ground beams to be 450mm wide x 450mm deep
- Floors to be suspended precast concrete beam and block. Span directions indicated thus: →
- Centre lines of walls, beams and piles are coincident

All setting-out dimensions to be checked against Architect's drawing prior to commencement

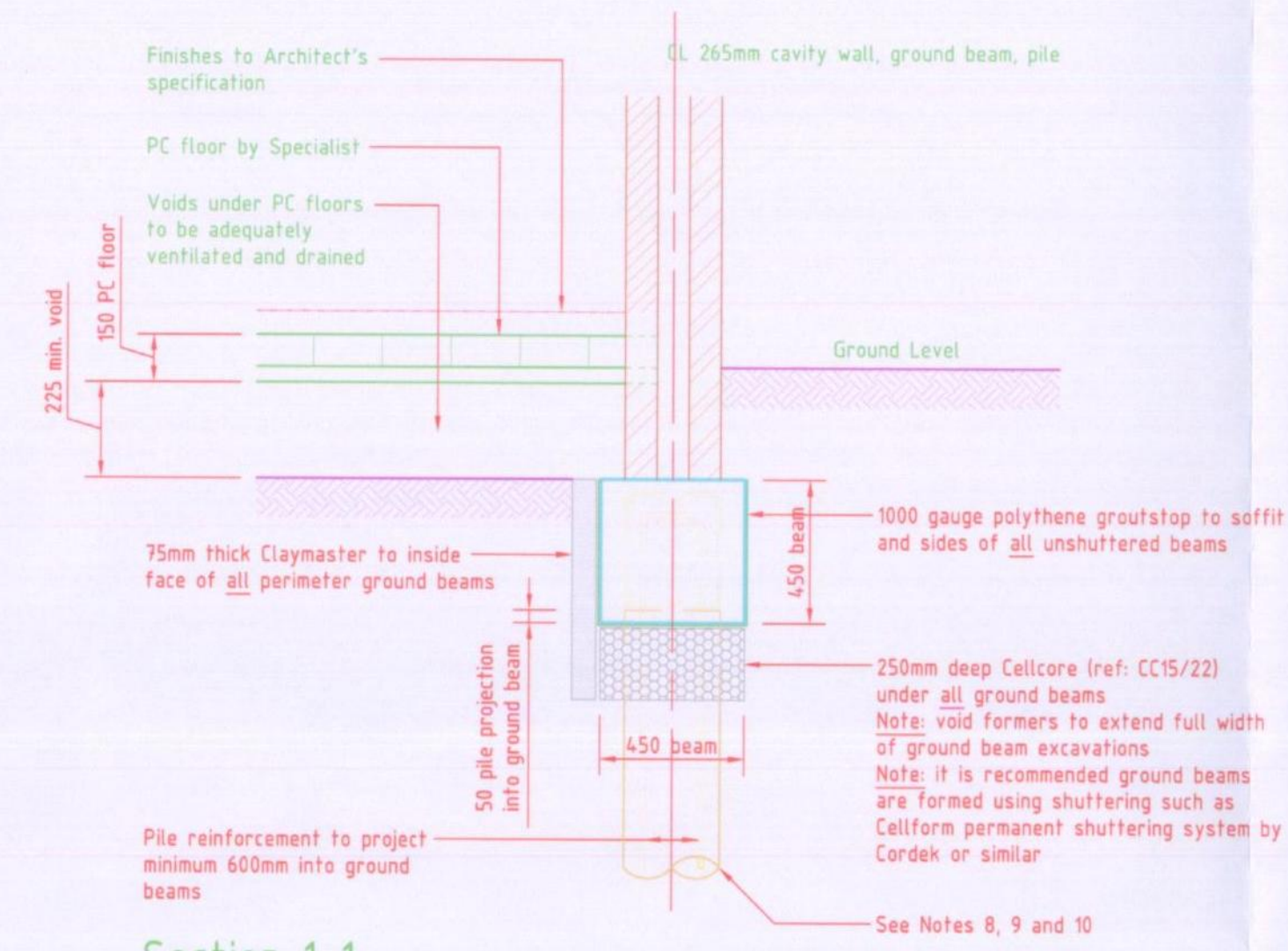


**Elevation X-X**

Scale 1:50

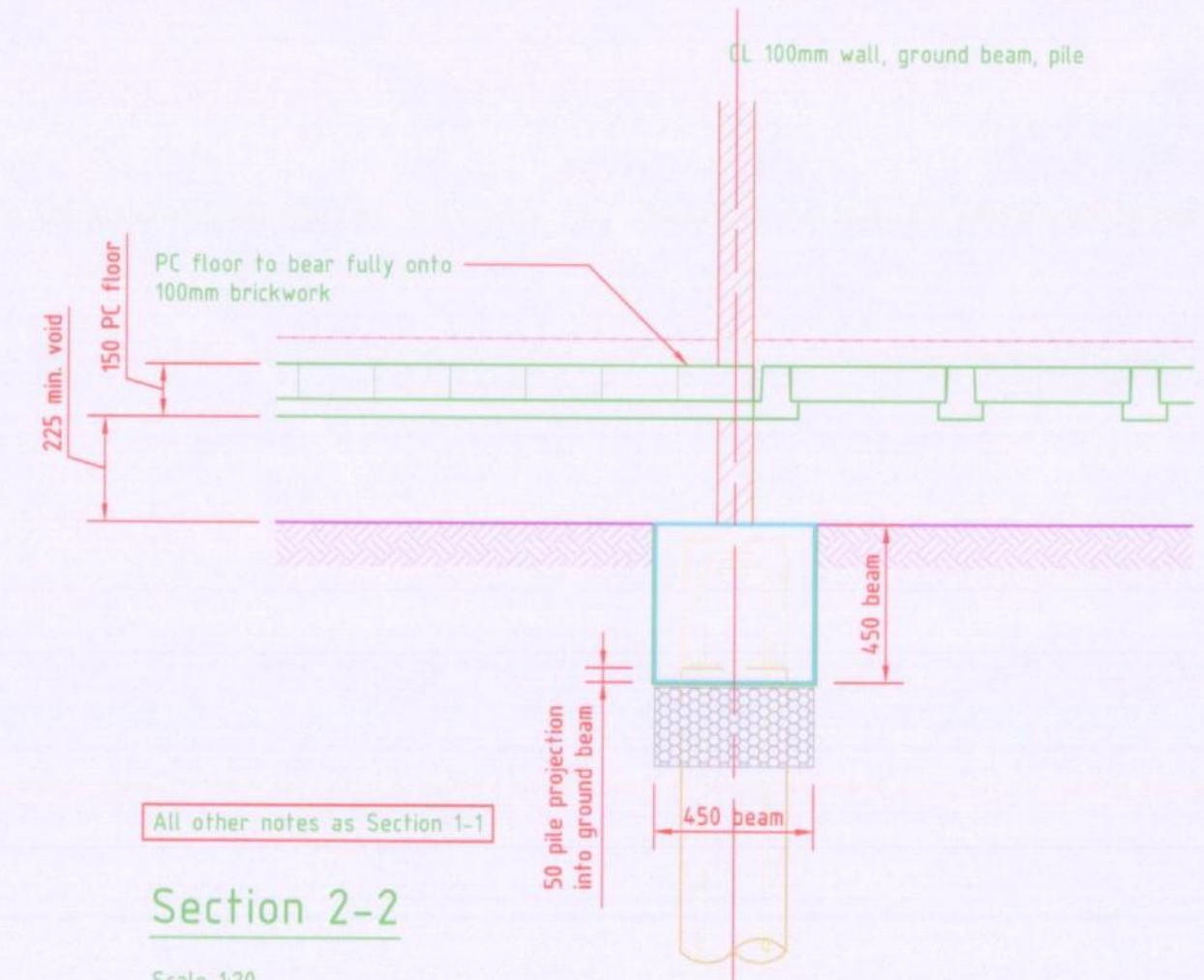
For details of floor ventilation and oversite plus relationship between precast concrete floors and external finished ground levels, refer to Architect's drawings

Pile no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Load (kN)	125	125	250	150	220	140	210	300	240	230	100	290	225	245	170	275	175	235	235



**Section 1-1**

Scale 1:20



**Section 2-2**

Scale 1:20

- Notes**
- This drawing shall be read in conjunction with all Architect's, Surveyor's and Engineer's drawings and the specification.
  - This drawing shall not be scaled.
  - The Contractor shall be responsible for the continued stability of all structures on this site and adjoining sites and shall take all necessary steps to safeguard this stability.
  - All excavations shall be adequately shored.
  - Concrete mix for ground beams as follows:  
Minimum 28 day strength: 35N/mm<sup>2</sup>  
Minimum cement content: 330kg/m<sup>3</sup>  
Maximum water/cement ratio: 0.50  
Maximum aggregate size: 20mm  
Cement type: OPC  
for Class 2 sulphate conditions.
  - Main Contractor to locate all underground services before piling operations commence.
  - All foundation work shall be strictly in accordance with the latest revision of BS8004.
  - All piles shall be designed by the Specialist to safely carry the working loads noted on the drawings considering the ambient ground conditions all in accordance with the piling specification. Factor of safety = 3.0.
  - All piles shall be a minimum length of 8.0m from existing ground levels and the top 8.0m of the pile shall be reinforced with a minimum of 6 H12 bars and R6 helical binding. The minimum pile and reinforcement lengths shall be increased to 10.0m where there is an oak tree of any size within 10.0m of the pile. Minimum reinforcement laps shall be 350mm.
  - The top 3.5m of each pile from existing ground level shall be ignored in the design and the piles shall be designed to resist uplift under the worst loading conditions assuming the top 3.5m of the pile is subject to heave action. The top 3.5m of each pile shall be ignored and subject to heave action if there is an oak tree of any size within 10.0m of the pile.
  - The Contractor shall check and confirm all setting-out dimensions with the Architect's/Surveyor's drawings before works are commenced.
  - The Contractor shall inform the Engineer of any out of position piles before the ground beam construction is completed.
  - See Architect's/Surveyor's drawings for all OPC and DPM details.
  - Reinforcement for ground beams is scheduled on Bar Bending Schedule numbers 7276/002/01 and 7276/002/02.
  - Unless noted otherwise concrete cover to all ground beam reinforcement shall be 40mm top and bottom, 75mm side.
  - All Cellcore, Clayite and Claymaster shall be used strictly in accordance with the manufacturer's instructions.
  - All structural concrete shall be vibrated.
  - No pipes, drains, ducts and the like shall pass through the ground beams without the written permission of the Engineers.
  - All foundation trenches shall be kept free of water.
  - A minimum of 7 days shall elapse after completion of ground beams before placement of suspended concrete ground floor.

REFER TO DRAWING NUMBER 7276/2 FOR REINFORCEMENT DETAILS

Serial:      Revision:      Date:

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Contract  
EASTLOGS, MOUNT BOVERS LANE  
HAWKWELL, HOCKLEY, ESSEX, S55 4JA

Drawing Title  
GENERAL ARRANGEMENT OF FOUNDATIONS  
TO PROPOSED DWELLING

Scale: 1:50 1:20      Drawn: JH      Date: MARCH 2010

Drawing No. 7276/1      Revision:

FOR CARPORT ONLY  
SMALL RAFT DEPTH  
IS NOT.