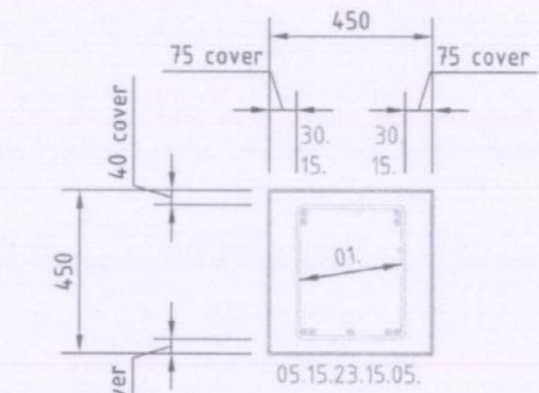


RC Details to Ground Beams

Scale 150

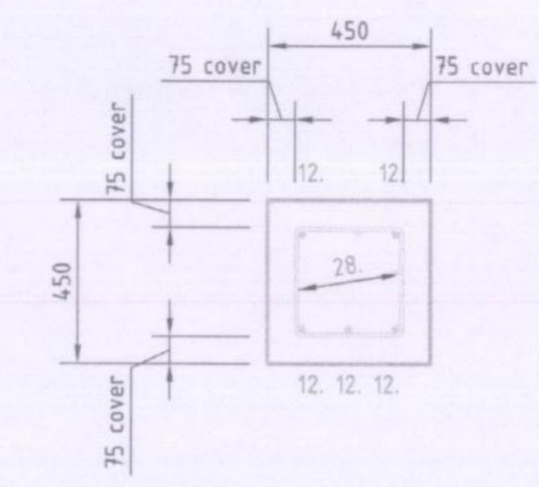
- H10 links (mk.01) placed at 250mm centres throughout except where noted
- Reinforcement scheduled on Bar Bending Schedule numbers 7276/002/01 and 7276/002/02

All fixed reinforcement to be checked by the Engineer prior to placement of concrete - 24 hours notice is required



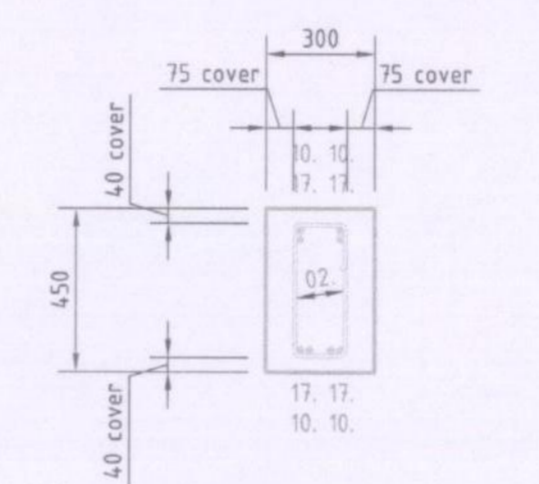
Section 1-1

Scale 120



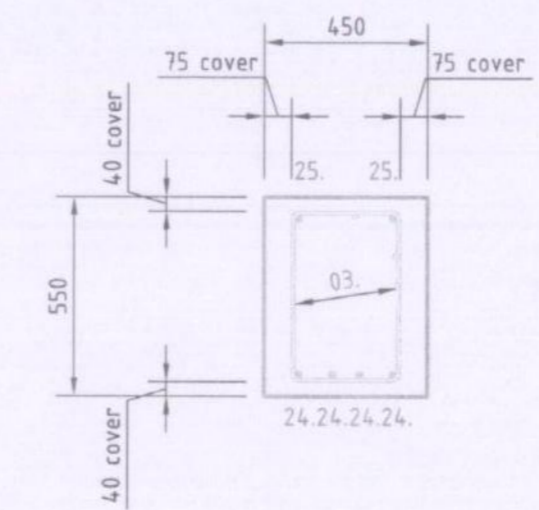
Section 2-2

Scale 120



Section 3-3

Scale 120



Section 4-4

Scale 120

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 ²
Minimum cement content	350kg/m ³
Maximum water/cement ratio	0.55
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 750mm.
- 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 5.0m 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 commenced.
- 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 Colcrete, Claylite 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 3 days shall elapse after completion of ground beams before placement of suspended concrete ground floor.

Serial	Revision	Date

Springfields.
Structural Engineering Consultants

The Old Fire Station, South Street
Great Waltham, Chelmsford
Essex CM3 1DF

Tel: 01246 363553
Fax: 01246 363580
Email: ssee@btconnect.com

Architect / Client
BETTERVIEW / MRS SARAH NOAD

Contract
EASTLOGS, MOUNT BOVERS LANE
HAWKWELL, HOCKLEY, ESSEX, SS5 4JA

Drawing Title
REINFORCEMENT DETAIL OF FOUNDATIONS
TO PROPOSED DWELLING

Scale 1:50 1:20	Drawn JH	Date MARCH 2010	Revision
Drawing No. 7276/2		Revision	

ONLY SMALL RAFT
OF 150 MM WIDTH
FOR THE CARPORT