

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STABILITY OF THE WORKS AND ADJOINING STRUCTURES, WORKS AND SERVICES AT ALL STAGES OF CONSTRUCTION.
2. THIS DRAWING SHALL NOT BE SCALED, WRITTEN DIMENSIONS ONLY ARE TO BE USED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB CONTRACTORS DRAWINGS AND SPECIFICATIONS.
4. REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF FINISHES, D.P.M'S AND D.P.C'S.
5. THE MAIN CONTRACTOR SHALL CHECK AND CONFIRM ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORKS.
6. THE NOTES AND DETAILS SHOWN ON THIS DRAWING RELATE TO STRUCTURAL REQUIREMENTS ONLY. RELEVANT PARTIES SHOULD ENSURE THAT THESE PROPOSALS DO NOT CONTRAVENE OTHER NON STRUCTURAL REQUIREMENTS. WHERE CONFLICT OCCURS THIS SHOULD BE BROUGHT TO THE ATTENTION OF WALKER ASSOCIATES PRIOR TO CONSTRUCTION.

SUBSTRUCTURE CONCRETE

1. ALL CONCRETE MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS 8110, AND WALKER ASSOCIATES 'SPECIFICATION FOR REINFORCED CONCRETE'.
2. ALL CONCRETE IN PILE CAPS, BEAMS, SLABS, COLUMNS AND WALLS TO BE A MINIMUM GRADE C40 WITH A MINIMUM 28 DAY STRENGTH OF 40N/mm² USING 20mm MAX AGGREGATE.
3. ALL REINFORCED ELEMENTS TO BE CAST ON 50mm C20 CONCRETE BLINDING.
4. ALL CONCRETE WITHIN THE GROUND TO BE CLASS DC-1 (DESIGN SULPHATE CLASS DS-1, ACEC CLASS AC-1). PILES NOT INCLUDED, REFER TO SPECIFIC NOTES.
5. ALL STRUCTURAL CONCRETE TO BE MECHANICALLY VIBRATED.


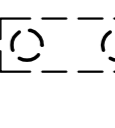
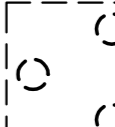
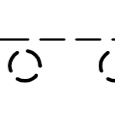
PILING

1. ALL PILING OPERATIONS ARE TO BE IN ACCORDANCE WITH BS 8004 : 1986 & BS 8110, AND ANY RELEVANT 'SPECIFICATIONS FOR PILING WORKS' AND THE INSTITUTION OF CIVIL ENGINEERS.
2. ALL PILES TO BE MINIMUM 300 DIAMETER, MAXIMUM 450 DIAMETER.
3. ALL PILES TO BE REINFORCED WITH MINIMUM 4H16'S AND R6 SPIRALS FOR A LENGTH THAT GIVES ACCEPTABLE ANCHORAGE THAT SUITS THE PREVAILING SOIL CONDITIONS.
4. PILE REINFORCEMENT SHALL PROJECT THE GREATER OF 600mm OR 40xBAR DIAMETERS ABOVE PILE CUT OFF LEVEL, AND SHALL BE BENT OVER INTO GROUND BEAM / PILE CAP AS SHOWN.
5. THE ENGINEER SHALL BE ADVISED IMMEDIATELY OF ANY PILE DISPLACEMENT, ON PLAN, OF GREATER THAN PLUS OR MINUS 75mm.
6. PILE DESIGN TO BE IN ACCORDANCE WITH BS 8004. PILES TO BE DESIGNED FOR A FACTOR OF SAFETY OF 3.0 FOR COMPRESSION AND TENSION LOADS OR WITH A REDUCED FACTOR OF SAFETY ON COMPRESSION LOADS ONLY WITH A TESTING REGIME CONFIRMED BY BUILDING CONTROL.
7. SPECIFIC PILES ARE TO BE SUBJECTED TO A PROOF LOAD TEST, IN ORDER TO VERIFY THAT WORKING LOAD SETTLEMENT IS WITHIN ALLOWABLE LIMITS, ALL IN ACCORDANCE WITH THE INSTITUTION OF CIVIL ENGINEER PILING SPECIFICATION.
8. ALL PILES ARE TO BE INTEGRITY TESTED TO ENSURE THEY ARE FREE OF ANY SIGNIFICANT DEFECT.
9. A MINIMUM OF 2 CONCRETE TEST CUBES ARE TO BE TAKEN DAILY FROM EACH CONCRETE MIX IN USE THAT DAY, FOR CRUSHING AT 7 AND 28 DAYS.
10. FOR DETAILS OF EXISTING SOIL CONDITIONS REFER TO THE GROUND INVESTIGATION REPORT 51311/1.3 DATED FEBRUARY 2014 BY REC (RESOURCE & ENVIRONMENTAL CONSULTANTS LTD).
11. CONCRETE IN PILES TO BE CLASS DC-4 (DESIGN SULPHATE CLASS DS-4, ACEC CLASS AC-4).

NOTE!
ALL COLUMNS TO BE 600x200 UNLESS NOTED OTHERWISE

ALL CONCRETE WALLS TO BE 200 THICK UNLESS NOTED OTHERWISE

COLUMN REF	COLUMN SIZE
C1	600x200
C2	600x200
C3	600x200
C4	300x200
C5	600x200
C6	600x200
C7	300x200
C8	300x200
C9	500x200
C10	500x200
C13	600x200
C16	600x200
C17	600x200
C18	600x200
C19	300x200
C20	600x200
C21	600x200
C22	600x200
C23	600x200
C24	500x200
C25	600x200
C26	600x200
C27	600x200
C28	600x200
C29	600x200
C30	600x200
C31	600x200
C32	350x350
C33	600x200

TYPICAL PILE CAP DEPTHS (REFER TO PLAN FOR ADDITIONAL PILE CAPS)
 <p>1 PILE CAPS=750mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL-250mm-700mm)</p>
 <p>3 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL-250mm-950mm)</p>
 <p>3 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL-250mm-950mm)</p>
 <p>4 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL-250mm-950mm)</p>

ALL CONTIGUOUS PILES ARE TO BE DESIGNED FOR A 150kN S.W.L & TENSION OF -25kN UNLESS NOTED OTHERWISE

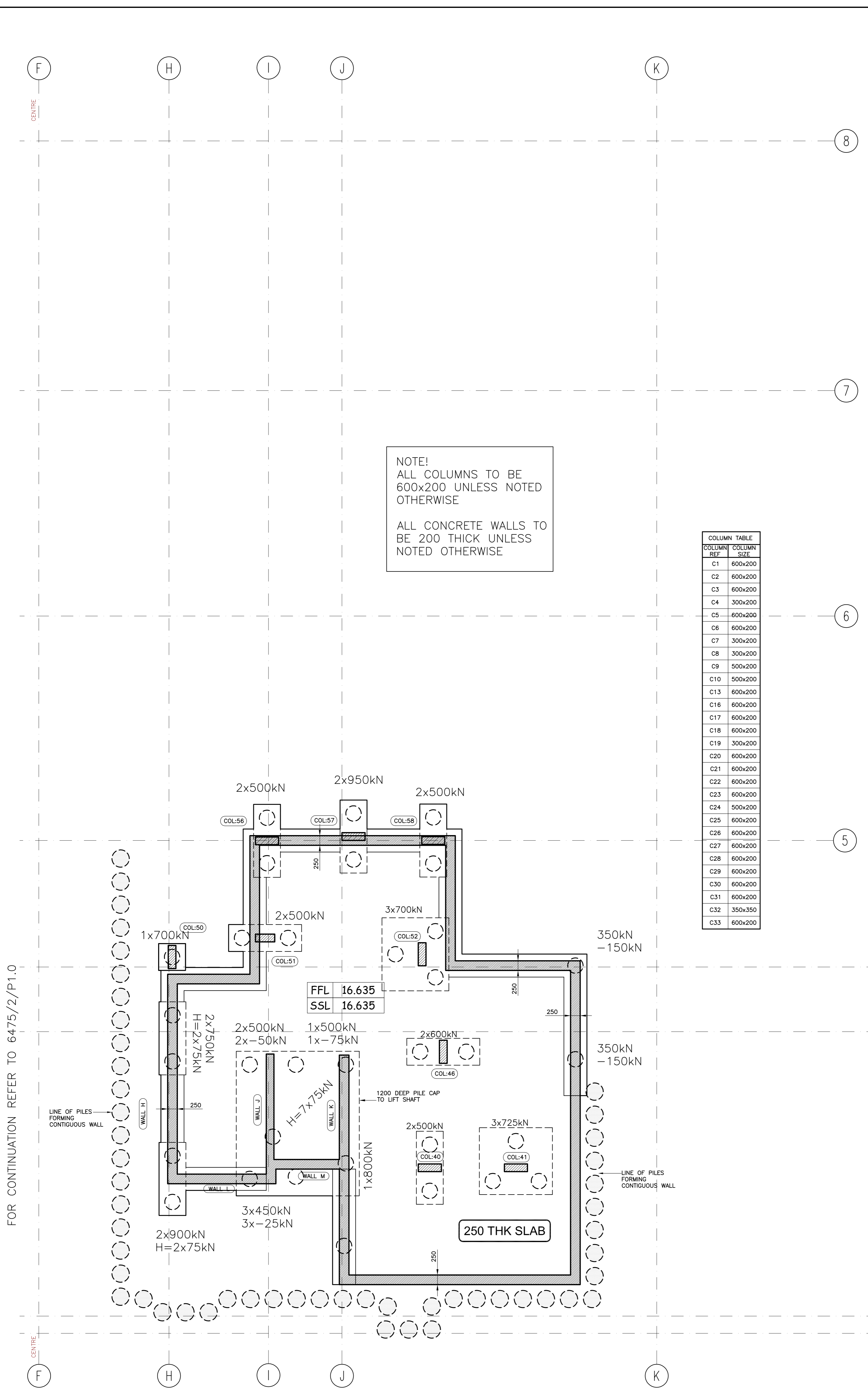
ALL CONTIGUOUS PILES TO BE DESIGNED FOR TEMPORARY FREE CANTILEVER DURING CONSTRUCTION. TOP PROPPED IN PERMANENT CONSTRUCTION

NOTE! COLUMNS AND WALLS TO BE CENTRAL UNDER CONTIGUOUS PILED WALL/CAPPING BEAM

ALL PILES DESIGNED FOR A HORIZONTAL LOAD OF 10kN UNLESS NOTED OTHERWISE

(450kN) DENOTES VERTICAL U.N.O
(-450kN) DENOTES TENSION U.N.O
(H=450kN) DENOTES HORIZONTAL U.N.O

LOADINGS INDICATIVE, REFER TO PLAN FOR EXACT LOADINGS



FOR CONTINUATION REFER TO 6475/2/P1.0

REV	DATE	AMENDMENT	BY	CHKD
STATUS TENDER				

<p>PROJECT Bourne Estate</p>	<p>CLIENT Higgins CONSTRUCTION</p>	<p>DRAWING Block 2 Basement Floor Plan General Arrangement Sheet 2 of 2</p>	<p>DATE June '14</p> <p>SCALES (A1) 1:50</p> <p>DRAWN BY DW</p> <p>CHECKED BY</p>	<p>Address 13 Capricorn Centre Cranes Farm Road Bloxdown Essex SS14 3JJ</p> <p>Tel 01288 530 500 Fax 01288 28 68 28 Web www.walker-associates.co.uk</p> <p>DRG NO. 6475/2/B1.1</p>
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