



FOUNDATION LAYOUT  
1 : 50

REINFORCED CONCRETE

- a. For any reinforced concrete that is part of a foundation structure these notes should be read in conjunction with the foundation notes.
- b. All reinforced concrete workmanship and materials to be in accordance with the requirements of BS EN 1992, BS EN 13670 and the National Structural Concrete Specification.
- c. Reinforced concrete elements in contact with the ground to receive 50mm mass concrete blinding to facilitate fixing of reinforcement unless agreed otherwise. Concrete blinding to be Designated Mix Gen 3 or a designed mix to achieve grade C16/20 in accordance with BS EN 206-1 / BS 8500-1.
- d. All reinforced concrete unless noted otherwise to be Designated Mix RC40 or a designed mix to achieve grade C32/40 in accordance with BS EN 206-1 / BS 8500-1. Nominal maximum size of aggregate 20mm. Concrete to be slump class S3.
- e. Reinforcement to comply with BS4449, BS4482 or BS4483, and shall be bent in accordance with BS8666:2005. High yield reinforcement to be type 2 deformed bars.
- f. Minimum lap length to all reinforcement to be 40 times the smallest bar diameter unless noted otherwise. Minimum lap to mesh reinforcement to be 400mm and mesh to have flying ends.
- g. Fresh concrete to be thoroughly compacted using vibrating pokers to produce a dense homogeneous concrete.
- h. For each mix designation fresh concrete to be sampled and cubes cast for testing at rate of 3no. per 18cu meter placed, min 1no. per load, min 3no. per pour, min 3no. per day. Cube sets to be tested at 7 and 28 days with one spare in accordance with BS EN 12390.
- i. Exposed surfaces of all freshly cast concrete to be cured over 7 days during which time it shall not be allowed to dry nor be subject to frost. Sprayed curing agent Concure or similar to be used on surface of all slabs.
- j. Cover to all faces to be maintained with the use of proprietary chairs, spacers, etc, provided by the contractor, to adequately support reinforcement during placement and casting of concrete. Pieces of wood, bricks etc, will not be permitted. All spacers are to be in accordance with BS7973.
- k. Cover to foundation reinforcement to be 75mm bottom & sides if in direct contact with ground, 50mm bottom cover if against mass concrete fill or blinding, 50mm side cover if formed sides are used.
- l. Surface finish to areas exposed above ground on completion to be 'Plain' to BS EN 13670 unless noted otherwise; exposed below ground or hidden above ground (tops of ground beams to be built off, walls to be plastered, slabs to be screeded) on completion to be 'Ordinary' to BS EN 13670; hidden below ground on completion to be 'Basic' to BS EN 13670.

DESIGNERS CDM NOTES ON RESIDUAL RISKS

THE SAFETY, HEALTH AND ENVIRONMENTAL ISSUES NOTED BELOW ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

CONSTRUCTION HAZARDS AND RISKS

- Steel frame to be temporarily propped throughout construction until all purlins and side rails are fixed in place.

MAINTENANCE/ CLEANING HAZARDS AND RISKS

- None relevant to this drawing

DEMOLITION HAZARDS AND RISKS

- None relevant to this drawing

GENERAL NOTES

1. This drawing is to be read in conjunction with all relevant Architect's / Engineer's drawings, specifications and CDM documentation.
2. This drawings has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only, DO NOT SCALE. All dimensions to be checked on site. Any errors or omissions to be reported to the engineer immediately.
3. All dimensions are in millimeters and levels in meters except where shown otherwise.
4. Where proprietary products are specified these may be substituted by an equivalent product subject to approval by the Engineer. All products are to be installed strictly in accordance with the manufacturer's recommendations.
5. Before commencing construction the Contractor is to ascertain the position and depth of private and utility services and other plant or equipment on and adjacent to the site and report any conflicts with proposed works to the Engineer.
6. All work and materials specified shall be in accordance with the NHBC Standards' technical requirements and guidance (ISBN 0907257 series).
7. All construction products to have CE Marking in accordance with the relevant European Technical Standards in force at the time.
8. This drawing is copyright and shall not be copied in whole or in part without written permission of SWJ Consulting.
9. Until technical approval has been obtained from the relevant Authorities it should be understood that all drawings issued are preliminary and NOT for construction. Should the contractor start site work prior to approval been given, it is entirely at his own risk.
10. Should there be any discrepancies between details indicated on this drawing and those indicated on other drawings the Engineer should be informed PRIOR to construction on site.

FOUNDATIONS

- a. For details of ground conditions refer to ground investigation report. The Engineer shall be immediately notified of any variations to the reported ground conditions.
- b. Foundation depths and formation condition are dependant on ground conditions encountered on the site at the time of excavation and are subject to inspection and approval of the Building Control Officer, prior to concreting.
- c. Engineer is to be informed immediately if foundation depths substantially exceed the minimum depths indicated upon the drawings.
- d. Foundations to be cast on firm and level formation in undisturbed natural soils free of soft material, water and roots.
- e. Allowable bearing capacity of 100kN/sq m to be achieved at formation in accordance with the assumptions in the building design calculation.
- f. Foundation depths near trees in cohesive soils have been calculated using NHBC Technical Standards, Chapter 4.2 allowing for moderate plasticity clay sub-soil.
- g. Wall footings to be either strip footing (concrete thickness up to 500mm and depth below ground level not more than 1.2m) or trench fill (concrete thickness in excess of 500mm).
- h. Strip footings to be central under wall and minimum 400mm wide by 150mm thick, except where shown otherwise. Minimum depth 1.0m below lower of original and final ground levels.
- i. Trench fill foundations over 2.5m deep have been designed accordingly and must be dug and poured in simultaneous operations.
- j. Where construction joints to trench fill footings are unavoidable they should not be positioned close to returns in the foundation. The joint face should not be vertical and should be cleared of any soil before pour continues.
- k. All steps in strip or trench fill foundations shall be in accordance with clause 252(a) of The Building Regulations & NHBC Standards.
- l. Foundations to be taken down below depth of adjacent existing foundations and any redundant foundations (whether removed or left in situ), drainage pipes and below any other disturbed ground.
- m. Any obstructions found, shall be removed for the extent of the foundation works and back filled to the approval of the Engineer.
- n. No service or drain to pass through or under a footing.
- o. Where appropriate and unless foundation formations are concreted immediately, then min. 50mm of mass concrete blinding shall be provided. Concrete to be Designated Mix Gen 3 or a designed mix to achieve grade C16/20 in accordance with BS EN 206-1 / BS 8500-1. The blinding depth shall not be regarded as part of the foundation depth noted on the drawings.
- p. Any over-site concrete to be Designated Mix GEN 1 or a designed mix to achieve grade C8/10 in accordance with BS EN 206-1 / BS 8500-1.
- q. All mass concrete unless noted otherwise to be Designated Mix Gen 3 or a designed mix to achieve grade C25/30 in accordance with BS EN 206-1 / BS 8500-1. Nominal maximum size of aggregate 20mm. Concrete to be slump class S3 except for trench fill foundations which should be S4.
- r. All concrete in ground to be ACEC Class AC-1s, DS-1 in accordance with Table A2 to BS8500-1.
- s. Cement to be ordinary Portland Cement to BS EN 197-1 (or approved equivalent). No additives or admixtures unless approved by the Engineer.
- t. Column pad foundations to be central under column. Size as shown on drawings.
- u. For all general levels refer to Architects and Topographical survey drawings.
- v. Holding down bolts and anchor plates shall be set into the foundation concrete by the Main Contractor in accordance with the Steel Frame Manufacturer's drawings.
- w. Any fixings into concrete to utilise epoxy resin fixings with a hole depth no greater than 0.5 x member thickness unless noted otherwise.

FOUNDATION REINFORCEMENT KEY

- H12s At 200Cr. In Both Direction. Top and Bottom.
- H12 At 200Cr. In X Direction. H20s At 150Cr. In Y Direction. Top and Bottom

Pad Foundation Schedule						
Type	Pad Length	Pad Width	Pad Depth	Structural Material	Reinforcement	Count
Type 1	1500	1500	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	3
Type 2	1800	1800	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	3
Type 3	1700	1700	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	3
Type 4	1600	1600	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	2
Type 5	1000	1000	300	Concrete - In-Situ - C25/30	Not Reinforced.	1
Type 6	2100	2100	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	1
Type 7	2000	2000	300	Concrete - In-Situ - C25/30	H12s At 200Cr. In Both Direction. Top and Bottom.	2
Type 8	7500	1600	300	Concrete - In-Situ - C25/30	H12 At 200Cr. In X Direction. H20s At 150Cr. In Y Direction. Top and Bottom.	1

PROJECT West Witney Sports Ground - Main Depot		TITLE Foundation Layout	
PROJECT		ORIGINATOR	SCALE
04725		SWJ	As indicated @A1
JOB NO.		PURPOSE OF ISSUE	STATUS
04725		FOR COMMENT	S3
REVISION		DATE	BY
T1		26/08/25	MB