

1.1.7 Reinforced Concrete Notes
1. All reinforced concrete is designed to BS 8110-1:1997 and all construction is to comply with this code.
2. Concrete is specified in accordance with BS 8500-1:2006 and BRE Special Digest No 1:2005. All concrete is to conform to BS EN 206-1:2000 and BS 8500-2:2006.
The Aggressive Chemical Environment for Concrete (ACEC) site classification is: AC-Zz
Strip foundation (mass gravity wall) :-
Concrete strength/durability requirements are as follows:
Designated mix FND Zz Compressive Strength Class: C30N/mm² Permitted Cements and Combinations: As BS 8500 Maximum aggregate size: 20mm Nominal Cover: 50mm
The Design Chemical Class is: DC-Zz. Where necessary, the strength/durability requirements indicated above should be enhanced to meet the requirements of BS 8500-1:2006 and BRE Special Digest No. 1:2005.
Retaining walls:- In abeyance
Concrete strength/durability requirements are as follows:
Compressive Strength Class: C32/40 Permitted Cements and Combinations: As BS 8500 Maximum aggregate size: 20mm Nominal Cover: 50mm
The Design Chemical Class is: DC-Zz. Where necessary, the strength/durability requirements indicated above should be enhanced to meet the requirements of BS 8500-1:2006 and BRE Special Digest No. 1:2005.
The minimum cement contents indicated are based on the stated maximum aggregate size. If a smaller maximum aggregate size is used the cement content is to be increased in accordance with BS 8500-1:2006.
3. Concrete sampling and testing shall be carried out in accordance with BS EN 12350 and in accordance with BS 8500-1:2006.
4. All excavations for reinforced concrete shall be kept free from water, loose material and rubbish.
5. Reinforcement should comply with BS 4449:2005, 4482:2005 or 4483:2005. All reinforcement designated 'H' should be high yield type 2 deformed bars, fy 500 N/mm². All fabric reinforcement to be high yield in accordance with BS 4482:2005 and BS 4483:2005.
6. Reinforcement shall be free from oils, paint etc (which may adversely affect its bond with the concrete).
7. Where faces are cast directly against the ground, cover is to be 75 mm in accordance with BS 8110-1:1997, and where necessary widths of concrete members are to be increased accordingly.
8. Top reinforcement in slabs shall be supported on mild steel chairs, to ensure all reinforcement has the required cover of concrete.
9. Spacer blocks are to be made of pre-cast concrete or a suitable plastic alternative. They shall be used to ensure that all reinforcement has the required cover of concrete. The use of pieces of wood, brick etc is not permitted.
10. It shall be the responsibility of The Contractor to check bending schedules against the drawings prior to the ordering of the reinforcement and to notify The Engineer of any discrepancies.
11. All reinforcement to be detailed to BS8666:2005.
12. The contractor shall ensure that all excavations and other works on site are in accordance with the relevant and current health and safety acts.
13. Annotation of reinforcement is as follows: 36H16-08-200 EF Bar location Bar spacing Bar mark Bar diameter Bar type Number of bars Location of bars NF - Near Face B1 - Bottom Face, Bottom Layer T1 - Top Face, Top Layer BTM - Bottom ABR - Alternative Bar Reversed EW - Each Way STAG - Staggered FF - Far Face B2 - Bottom Face, Second Layer T2 - Top Face, Second Layer TOP - Top ALT - Alternative AP - Alternately Placed
14. For bending schedule refer to JNP group schedule(s) listed on document issue register.

1.1.9 Masonry Notes
1. All masonry to be in accordance with the requirements of BS 5628:2005 parts 1,2 and 3.
2. Cement shall be in accordance with BS EN 197-1:2000, BS 146:2002, BS 4027:1996 or BS EN 413-1:2004.
3. Aggregates shall be in accordance with BS EN 12620:2002, BS EN 13139:2002, BS EN 877:1999 or BS EN 1744-1:1998. Colour pigments should comply with BS 1014 and should not exceed 10% by mass of the cement content.
4. Plasticizers are permitted and should comply with BS EN 998-2:2003 and be used in strict accordance with the manufacturer's instructions.
5. Mortar testing should be in accordance with BS 5628-1-annex A and BS EN1015-11 and the results issued to The Engineer.
6. Blockwork below dpc level to be minimum 10.4N/mm² or as specified on the appropriate drawing/sketch unless noted otherwise. Mortar below dpc level to be mortar class M12 to BS EN 998-2:2003 or mortar class M6 to BS EN 998-2:2003 and sulphate resistant, unless The Contractor can justify that this is unnecessary.
7. All masonry to be fully keyed/bonded at joints and returns except at movement joints;
8. Movement Joints:- Movement joints are as shown on the engineering drawings. The following considerations have been adopted:- External movement joints have been specified, using the recommendations of BS 5628:2005 and architectural considerations, to limit potential shrinkage cracking. Workmanship, weather conditions, type of render and block manufacturer's literature may necessitate more onerous requirements. These should be reviewed in conjunction with movement joint locations indicated on the drawings.

1.1.3 Foundation Notes
1. The NHBC describes strip foundations as those with an effective thickness of concrete between 150 and 500 mm. Trench fill foundations are therefore classified as those having a thickness of concrete in excess of 500 mm. The minimum thickness of concrete shall be equal to the specified width of foundation, minus the wall thickness, divided by two; or 300mm, whichever is the greater.
3. Foundations have been designed using the following information:- a) Ground Investigation Report: B24215-JNP-XX-XX-RP-G-1001 b) Soil conditions: clay and mudstone. The material is defined as having the shrinkage potential: low to medium. c) A safe bearing pressure of min. 100-150 kN/m² for natural virgin material. The Engineer shall be informed of the location and species of any new trees to be planted as they may generate variations in foundation depth requirements. It is the responsibility of the landscape architect (or planting specifier) either to ensure planting does not affect the designed depths of foundations, or to specify depths greater than those indicated on The Engineer's drawings, all in accordance with NHBC guidelines (latest revision).
6. Construction joints and steps in foundations are to be in accordance with NHBC Standards Chapter 4.4 (latest revision) U.N.O.
7. All foundations shall have a common top level unless noted otherwise.
8. All excavations shall be kept free from water, loose material and rubbish etc. The formation level shall not be exposed until the day of the concrete pour.

General Notes

1.

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2.

All dimensions to be checked on site prior to construction/fabrication.

3.

Do not scale from this drawing.

4.

Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to JNP Group for decision.

5.

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6.

This drawing should only be used for construction if the drawing status is "Construction". JNP Group take no responsibility for construction works undertaken to drawings which are not marked with this status.

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Health & Safety Note

The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

HAZARD IDENTIFICATION BOX			
This table is provided to assist the Principal Contractor to fulfil their obligations under the CDM Regulations 2015			
Hazard Ref	Hazard Type Construction/Maintenance Cleaning/Overhaul/Repairs	Hazard Description	Mitigation Measures/ Residual Risk
			

-	02-03-21	First issue	SJB / MJ / NT
Rev	Date	Description	On / Off / Appd
Subsidiary			
S4 - Suitable for Stage Approval			



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Client

The Shepherd Foundation

Job

Fenay Bridge Nursery, Fenay Lane, Huddersfield

Title

Construction notes

Classification

FL_60_20

Scale @ A1:

N/A



Accredited Contractor

Supplier No. 008494

Project - Originator - Volume/System - Level/Location - Type - Discipline - Number

B24215 - JNP-XX-ZZ- DR -S- 1001

Revision

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Document/Drawing Number

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