Key

RE

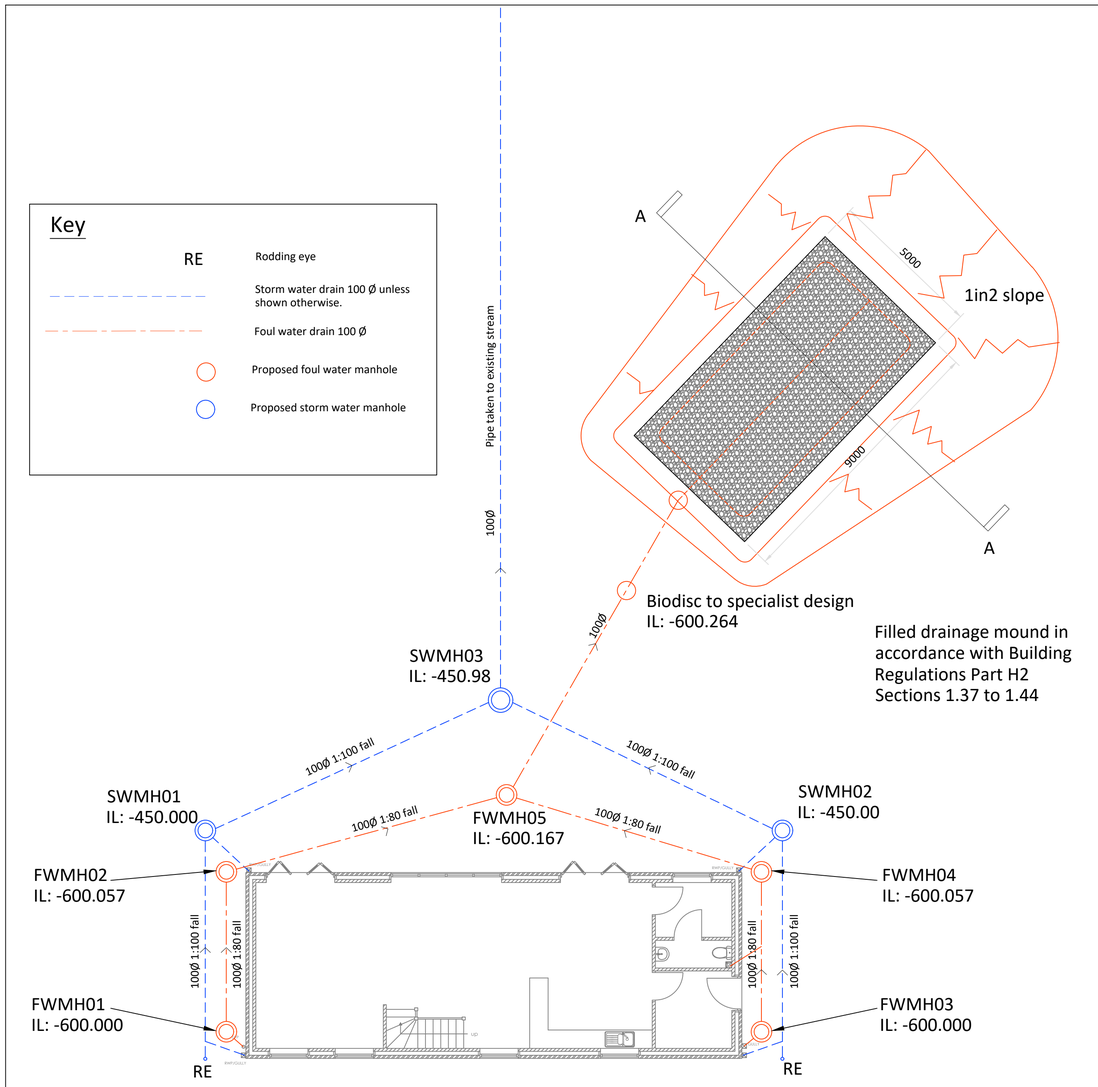
Rodding eye

Storm water drain 100 Ø unless shown otherwise.

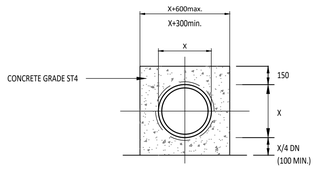
Foul water drain 100 Ø

Proposed foul water manhole

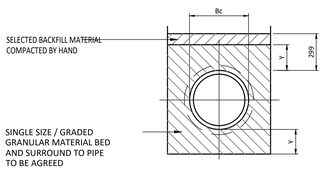
Proposed storm water manhole



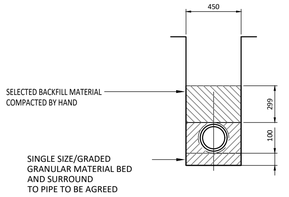
SITE PLAN SHOWING DRAINAGE
Scale 1:100



Type Z Bedding
Scale 1:25



Type S Bedding
Scale 1:25



Type P Bedding
Scale 1:25

1. Granular pipe bedding material for pipes, and backfilling for temporary drains (trench sub-drains), shall consist of aggregates from natural sources or sintered pulverized-fuel ash complying with the relevant provisions of bs.862 and bs.3797, part 2 respectively, sized in accordance with the following table.

NOMINAL BORE OF PIPE (MM)	ALTERNATIVE AGGREGATE SIZES (MM)	
	SINGLE-SIZED	GRADED
100 AND 150	10	-
225 - 300	10 OR 20	20 TO 5
375 - 525	20	20 TO 5
EXCEEDING	20 OR 40	20 TO 5 OR 40 TO 5

2. Selected backfill material, whether selected from locally excavated material or imported, shall consist of uniform, readily compactible material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. clay lumps and stones shall be retained 75mm and 37.5mm sieves respectively.

3. Compressible filler for interrupting concrete protection to pipelines shall consist of bitumen impregnated insulating board to bs 1142, part 3 or other equally compressible material. the thickness of compressible filler shall be as follows:.

NOMINAL BORE OF PIPE (MM)	THICKNESS OF COMPRESSIBLE FILLER (MM)
LESS THAN 450	18
450 - 1200	36
EXCEEDING 1200	54

4. The contractor is to protect buried pipes (particularly shallow pipes) from damage caused by loads imposed by construction plant.

5. Below roads and other paved areas where specified trenches shall be backfilled with dot specification type 2 sub-base material upto road/paving formation level.all other trenches,unless otherwise specified shall be backfilled to finished ground level or underside of topsoil layer with well compacted excavated material.

GRANULAR BEDDINGS
1. DIMENSION Y: 1/6 BC OR 100MM UNDER BARRELS,AND 50MM MIN UNDER SOCKETS WHICHEVER IS THE GREATER (400MAX). ROCK ETC 1/4 BC AND 150MM MIN UNDER SOCKETS (400MAX)
2. DN : NOMINAL BORE OF PIPE
3. BC : EXTERNAL DIAMETER OF PIPE BARREL

CONCRETE BEDDINGS
1. THE USE OF GRANULAR BEDDINGS BELOW CONCRETE BEDDINGS (BEDDING TYPES A2,A4,A6) ARE FOR USE IN WET CONDITIONS.
2. CONCRETE CRADLES MAY EXTEND TO SIDES OF TRENCH.
3. TRANSVERSE STEEL TO BE 0.4% MIN OF CONCRETE AT X-X (FM=3.4) UNLESS OTHERWISE STATED.
4. BEDDING BENEATH AND AT SIDES OF PIPE TO BE WELL COMPACTED
5. BEDDING/BACKFILL DIRECTLY ABOVE PIPE TO BE LIGHTLY COMPACTED BY HAND.
6. DIMENSION Y: 1/6BC OR 100MM UNDER BARRELS, AND 50MM UNDER SOCKETS WHICHEVER IS GREATER (SUBJECT TO 400MM MAXIMUM).
7. DN = NOMINAL BORE OF PIPE.
8. BC = EXTERNAL DIAMETER OF PIPE BARREL.

TRENCH WIDTH
1. THE MAXIMUM TRENCH WIDTHS ARE TO BE AS SHOWN BELOW UNLESS THE APPROVAL OF THE ENGINEER IS OBTAINED.

INTERNAL PIPE DIAMETER (mm).	MAXIMUM TRENCH WIDTH (mm).
100	600
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
975	2000
1050	2100
1200	2300

General Notes

2. This drawing is to be read in conjunction with all other project drawings and specifications.
3. All dimensions are in millimetre's unless otherwise stated.
4. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Project Engineer shall be informed PRIOR to construction on site.
5. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the Contractor commence site work prior to such approval being given, it is entirely at his own risk

DRAINAGE

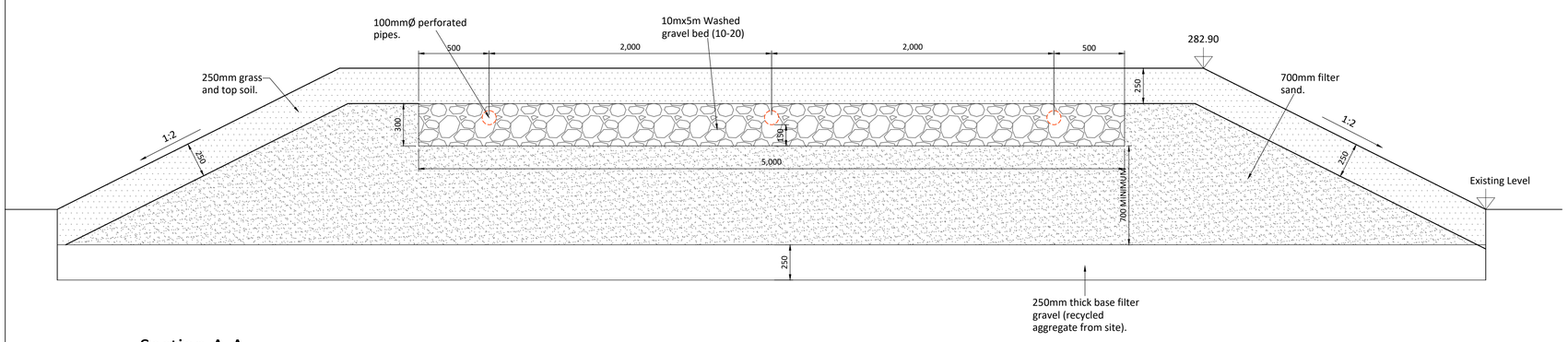
1. All drainage works are to comply with the requirements of BS 752 building drainage and building regulations 2010 approved document H 2015 edition.
2. All materials, unless specified otherwise, shall comply with the relevant British Standard.
3. Sources of materials are to be agreed with the employer's representative/engineer in advance of the works.
5. This drawing to be read in conjunction with all other engineering drawings and details and contract documentation. Any discrepancies in the details shown to be reported to the employer's representative/engineer prior to construction.
6. Location and levels of existing drainage runs are based upon sewer record plans and must be checked on site prior to the commencement of any drainage works.
7. All existing services to be located prior to the commencement of any drainage works and where necessary protection or diversions to be undertaken to avoid conflict with the proposed works.
8. All drainage and fittings to be flexibly jointed clayware to BS EN 295 or concrete to BS5911 part 100 or flexibly jointed UPVC pipes and fittings to wis no 4-13-05.
9. Typical pipe bedding to drainage where depth to soffit is greater than 900mm in landscaped areas and greater than 1200mm in trafficked areas is to be class S
10. Where depth to soffit of drainage pipe is less than 900mm in landscaped areas and less than 1200mm in trafficked areas then pipe is to be protected with concrete bed & surround, minimum 150mm thick.
11. Backfill to drainage trenches under carriageways to be type 1 sub-base material, elsewhere backfill to be free draining readily compatible material, free from rubbish and organic matter, frozen soil clay lumps and large stones. Compacted in layers not exceeding 150mm thick.
12. Manhole diameters should be in accordance with the table below:

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200 *
375-450	1500
500-700	1500
750-900	1800
950-1200	2100

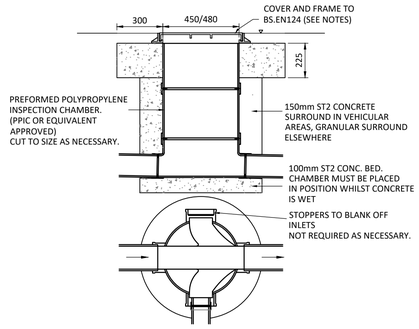
13. A flexible joint shall be provided as close as is feasible to outside face of any structure into which a pipe is built, compatible with the satisfactory completion and subsequent movement of the joint. The length of the next pipe (rocker pipe) away from the structure shall be as shown in the table below.

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
675-750	1.0
825 AND OVER	1.25

14. All levels are in metres above ordnance datum
15. All surface water drainage has been designed to attenuate flows up to and including the 1 in 100 year return period with an allowance of 40% for climate change.
16. Route and depth of public sewers is to be confirmed
17. Minimum benching to enable connections to be formed is indicated in the foul and combined manholes.



Section A-A
Scale 1:20



POLYPROPYLENE INSPECTION CHAMBER
Scale 1:20

REV	AMENDMENT	BY	CHK	DATE
P02	Site plan amended	MR	SC	25-08-20
P01	Preliminary Issue	MR	SC	21-08-20

PROJECT EXECUTION CLASS:
All materials supplied in relations to those specified on this drawing are to be CE marked in accordance with the European Union Declaration of conformity

DRAWING STATUS

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CLIENT
Mr & Mrs Chadwick

PROJECT
Darleyshire Farm, Wetley Rocks

DRAWING TITLE
Site Plan showing Drainage & Detail

SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A1	1:100 , 1:20	21/08/20	MR	SG	S

PROJECT No.	DRAWING No.	REV
200255	C2C - P - XX - M2 - C 005	P02

CAD File Path: /Users/Hoodson/_2 LIVE/2017 - 01/2015 2015/200255 - Darleyshire Farm, Wetley Rocks/01 DRAWINGS/11 CE/11 CAD/200255-C2C-P-XX-M2-C-005

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