

Cameron+Ross

Drainage Statement

Replacement Dwelling, Greenways

Kirkton of Durris



prepared for

Mr David Edgar


230907-000 – November 2023

Document Issue Record

| Revision | Description | Issued by | Checked by | Date |
|----------|---------------|-----------|------------|------------|
| - | Initial Issue | GCO | GGC | 28/11/2023 |
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Authorisation Record

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| Name: | George-Cristian Olteanu |  | 28/11/2023 |
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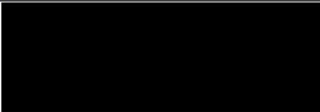
| Approver | | Signature | Date |
|-----------|-----------------|--|------------|
| Name: | Graham Christie |  | 28/11/2023 |
| Position: | Director | | |

Table of Contents

| | |
|---|----|
| 1. Introduction | 4 |
| 2. Ground Conditions | 4 |
| 3. Existing Drainage Network | 5 |
| 4. Proposed Development | 5 |
| 5. Foul Drainage Proposals | 5 |
| 6. Surface Water Proposals | 6 |
| 7. Adoption & Future Maintenance | 8 |
| 8. Construction Phase | 9 |
| 9. Conclusion | 10 |

Appendices

- Appendix A – Site Location Plan
- Appendix B – Architect Site Layout
- Appendix C – Scottish Water GIS
- Appendix D – C+R Drainage Calculations
- Appendix E – C+R Drainage Drawings

1. Introduction

Cameron + Ross were appointed by Mr David Edgar to prepare a Drainage Statement as part of the Planning Application for the proposed dwelling.

The site is located at Grid Reference NO 77441 96167 (377441E, 796167N), in Kirkton of Durris.

The site is bordered by woodland to the South; by adjoining properties to the East and West and by the B9077 Road to the North.

The site falls from the South to the North at a general constant gradient. The site currently consists of a dwelling.

Refer to the Site Location Plan provided in *Appendix A* of this report.

2. Ground Conditions

An intrusive site investigation has been undertaken by Cameron + Ross to determine ground conditions and to carry out infiltration testing. This was carried out on 27th of November 2023 and confirmed the sub-soils to be sands and gravels and localised rock underlying them.

During the trial pits, rock was encountered at approximately 600mm below ground level for two of the trial pits and water ingress was encountered at 900mm below ground level for the third trial pit. As such, no infiltration tests were undertaken at the site.

Based on the above, it is considered that infiltration-based drainage methods may not be suitable for the site. As such, it is proposed to discharge the surface water runoff generated from the site to surface waters.

3. Proposed Development

It is proposed to demolish the existing dwelling and construct a new four-bedroom house. The proposed dwelling will be served by the existing private driveway which connects to B9079 Road. Please refer to the Architect Site Layout contained in *Appendix B* of this report.

4. Existing Drainage Network

According to the Scottish Water GIS records, there are no nearby potential connection points for the foul or surface water drainage network.

Refer to *Appendix C* which contains the Scottish Water GIS Plans for the site.

5. Foul Drainage Proposals

It is proposed to treat the foul water at the site using a new package treatment plant prior to discharging the treated foul water to an existing foul water soakaway located to the North of B9077 Road which serves the existing house. Suitable population equivalent numbers (PE) were established the plot, in accordance with British Water 'Flows and Loads' document.

6. Surface Water Proposals

As previously discussed in *Section 2*, a surface water discharge to groundwaters has not been considered at the site due to poor infiltration rates. As such, the preferred method of discharge will be to surface waters.

The roof water from the proposed dwelling and garage will be conveyed via surface water drains to a stone filled attenuation trench, prior to discharging to the existing ditch at the site. It is assumed that the proposed driveway is constructed of self-draining material and, as such, these were not considered for the provision of surface water drainage. Please refer to C+R Drainage Calculations provided in *Appendix D*.

The treatment level required as stated within Table 26.2 of CIRIA C753 for 'residential roofs' is shown in *Table 6.1* overleaf, and the treatment level provided by the proposed SuDS method is stated in *Table 6.2* overleaf, which shows adequate treatment is achieved by the proposed system.

In accordance with CIRIA document C753, the risk posed by surface water runoff to the receiving environment is a function of the land use, the effectiveness of SuDS treatment components and the sensitivity of the receiving environment.

Determining the hazard posed by the land use activities at a site can be established by using a simple index approach by allocating pollution hazard indices for the proposed land use as outlined in Table 26.2 'Pollution Hazard Indices for different land use classifications' from the CIRIA C753 SuDS Manual.

To deliver adequate treatment, the selected SuDS components should have a total pollution mitigation index (for each contaminant type) that equates or exceeds the specific pollution hazard index. Typical SuDS features can be used as outlined in Table 26.3 'Indicative SuDS mitigation indices for discharges to surface waters' from the CIRIA C753 SuDS Manual.

| Land Use | Pollution Hazard Level | Total Suspended Solids (TSS) | Metals | Hydrocarbons |
|-------------------------------|------------------------|------------------------------|------------|--------------|
| Residential Roofs | Very Low | 0.2 | 0.2 | 0.05 |
| Pollution Hazard Index | Very Low | 0.2 | 0.2 | 0.05 |

Table 6.1: Pollution Hazard Indices for the proposed dwellings roof area (based on Table 26.2 in the SuDS Manual - C753 by CIRIA)

| Type of SuDS Component | Total Suspended Solids (TSS) | Metals | Hydrocarbons |
|---|------------------------------|------------|--------------|
| Surface Water Attenuation Trench (Filter Drain) | 0.4 | 0.4 | 0.4 |
| Total Pollution SuDS Mitigation Index | 0.4 | 0.4 | 0.4 |

Table 6.2: SuDS Mitigation Indices for the proposed dwellings roof area (based on Table 26.3 in the SuDS Manual – C753 by CIRIA)

Based on the above, the proposed SuDS components identified in *Table 6.2* exceed the land use pollution hazard providing the required level of treatment for a development of this nature.

All treated surface water will be discharged to the ditch. The discharge to the ditch will be controlled to pre-development greenfield runoff rates using an orifice plate control chamber. The system has been designed for the 1 in 50 Year Storm Event, including 30% Climate Change.

Please refer to C+R Drainage Layout & Construction Details Drawings provided in *Appendix E*.

7. Adoption & Future Maintenance

All proposed surface water and foul drains, package treatment plant, attenuation trench and chambers will remain private, to be maintained under individual ownership.

It is recommended that the drainage systems are inspected a minimum of twice per year, or, as per the manufacturer's guidelines, with the systems also being inspected after any major storm event. Significant sediment deposition is likely in areas used for storage, so a post clean-up operation may be required including the removal of litter, vegetation, sewerage debris and larger objects.

The CIRIA C753 Document provides guidance on the maintenance requirements for SuDS features. Please refer to *Table 7.1* below for maintenance details of the proposed attenuation and treatment system.

| TABLE 16.1 Operation and maintenance requirements for filter drains | | |
|--|--|-----------------------------|
| Maintenance schedule | Required action | Typical frequency |
| Regular maintenance | Remove litter (including leaf litter) and debris from filter drain surface, access chambers and pre-treatment devices | Monthly (or as required) |
| | Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage | Monthly |
| | Inspect pre-treatment systems, inlets and perforated pipework for silt accumulation, and establish appropriate silt removal frequencies | Six monthly |
| | Remove sediment from pre-treatment devices | Six monthly, or as required |
| Occasional maintenance | Remove or control tree roots where they are encroaching the sides of the filter drain, using recommended methods (eg NJUG, 2007 or BS 3998:2010) | As required |
| | At locations with high pollution loads, remove surface geotextile and replace, and wash or replace overlying filter medium | Five yearly, or as required |
| | Clear perforated pipework of blockages | As required |

Table 7.1 – Extract from 'CIRIA C753 – The SuDS Manual' for maintenance of filter drains (Ref. Table 16.1)

8. Construction Phase

The measures for controlling surface water run-off will be continually reviewed in line with each stage of construction by the groundwork's contractor and any influencing factors which should generally consider the following measures:

- **Control:** The contractor should give consideration, in the main, to surface water runoff during and after topsoil strip, as well as after re-grading of the land during site construction. Stripping of topsoil and vegetation is to be limited wherever possible and undertaken just prior to the construction in that area. This is to provide a means of reducing runoff and to remove silts/fines from the water and aid natural absorption into the soils.
- **Interception:** Any existing land drains may be uncovered within currently undeveloped areas of the site. These may not be disturbed by the proposals; however, it should be noted that through development of the site any groundwater discharge will be reduced as surface water is collected via roofs and hardstanding areas and directed into the new surface water drainage network with attenuation provided before controlled discharge to the Scottish Water sewers.
- **Prevention:** The installation of the drains, SuDS measures and roadways will follow the earthworks operation continually improving the overall site drainage. SuDS facilities will be installed at the outset of the sewer works and will be utilised as temporary sediment control. It is therefore essential these are reinstated or reconstructed at the end of construction works and before adoption by the local authority.

9. Conclusion

This Drainage Statement has been prepared as part of the Planning Application for the proposed dwelling at Greenways, Banchory.

The existing site characteristics, topography and natural drainage patterns have been reviewed and suitable drainage proposals have been identified. In developing a suitable, sustainable, and robust drainage scheme for the site, current best practice and relevant guidance documents have been referenced and adopted within the proposed design.

Due to the site characteristics correlated with poor infiltration of the subsoils, it is considered the only destination of the surface water runoff is to the existing ditch located within the site boundary. As such, the proposed surface water drainage scheme consists of a filter trench with controlled discharge to the ditch.

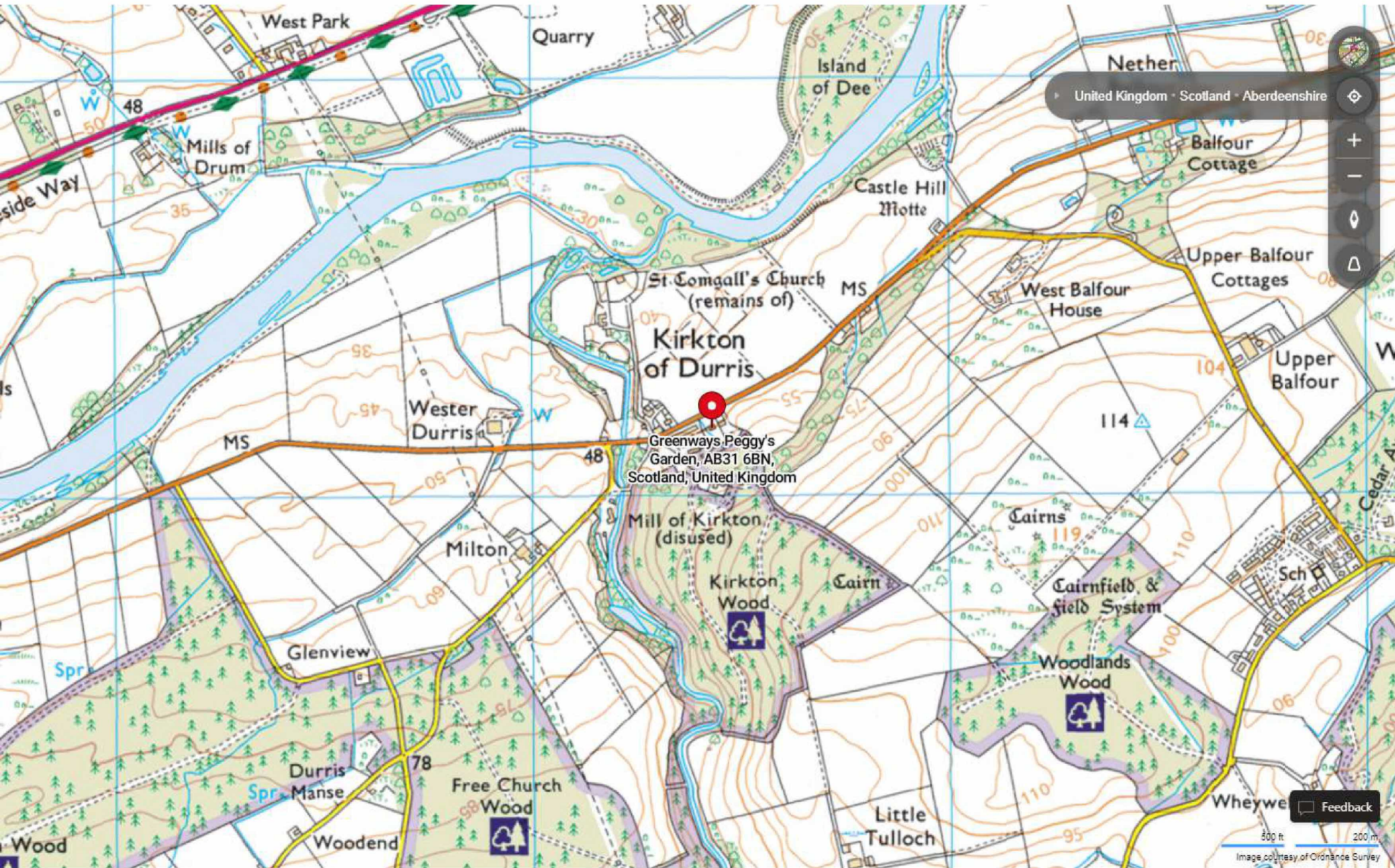
Foul water will be treated on-site using a package treatment plant prior to discharging the treated water to the existing foul water soakaway located to the North of B9077 Road which serves the existing house at the site.

The drainage proposals as set out above demonstrate that the site is suitable for the proposed development and that a sustainable drainage solution can be implemented in accordance with the relevant guidance documents and publications.



APPENDIX A

Location Plan



United Kingdom · Scotland · Aberdeenshire



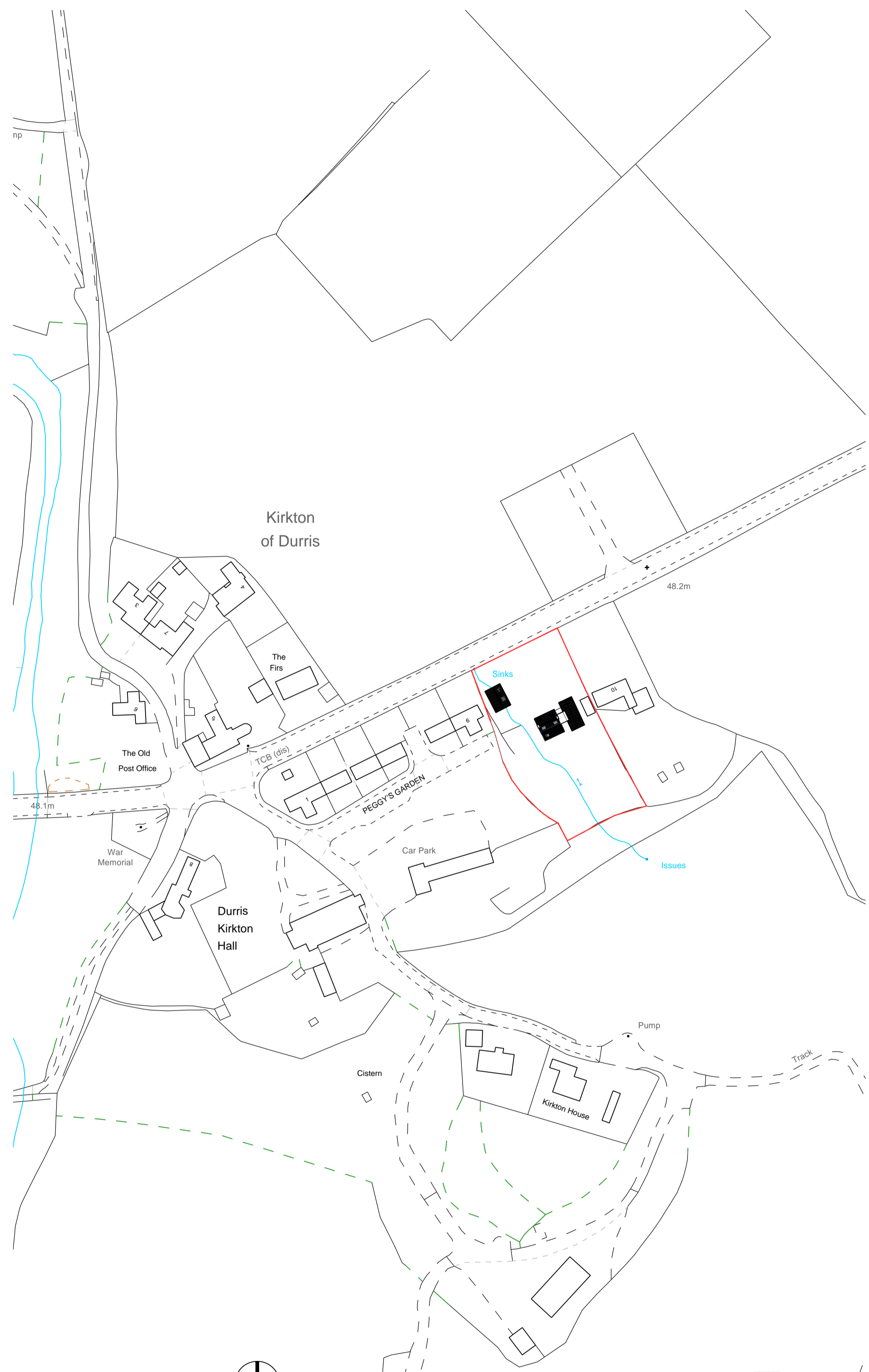
Feedback

500 ft 200 m
Image courtesy of Ordnance Survey



APPENDIX B

Architect Site Layout



Proposed Location Plan 1:1250



Proposed Site Plan 1:200

DO NOT SCALE FROM DRAWING
 All dimensions to be checked on site prior to construction and manufacture, and any discrepancies to be reported to Architect prior to ordering of materials and prior to carrying out any construction work.
 This drawing is copyrighted and must not be reproduced in whole or part without prior written permission. This drawing must not be scaled for construction purposes.
 CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015
 The designs on this drawing are prepared with the consideration of the need to identify hazards and give regard to the hierarchy of risk control.
 This drawing is to be read in conjunction with project specific standard hazard and risk assessment, where relevant.
 Works to be carried out in accordance with the Construction Phase Health & Safety plan prepared by the Principal Contractor

| rev. | description | date |
|---|-------------|------|
|  eb-architect Ltd Chartered Architect Office 10 Badentony Business Centre Badentony Crescent Portlethen AB12 4YD eb-architect.com 01224 969600 | | |

client.
Mr David Edgar
Greenways
Kirkton Of Durris

project.
Replacement Dwelling

drawing.
Proposed Location & Site Plan

status
Planning (Stage 3)

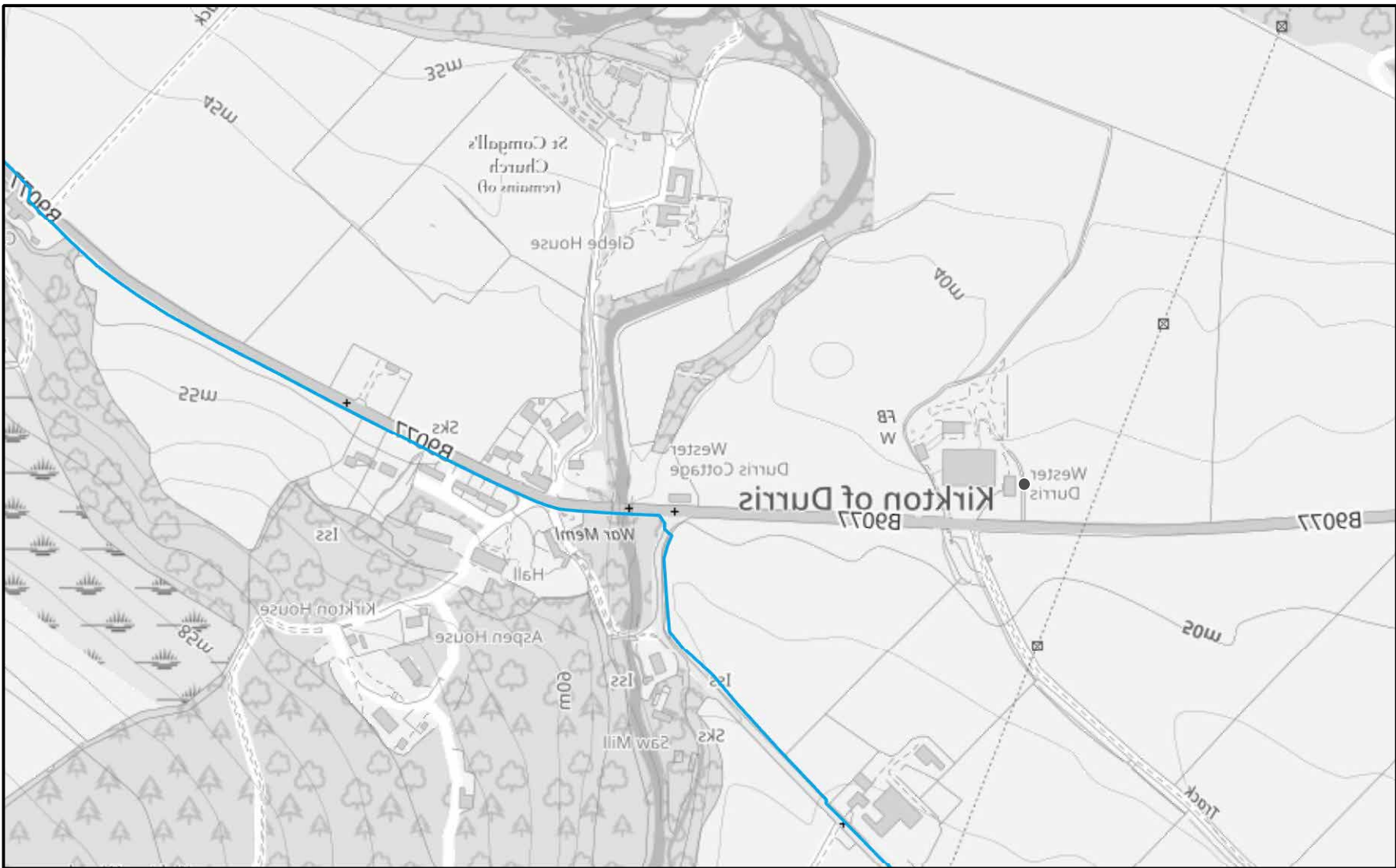
scale. 1:1250 & 1:200 drawn by. EB
 date. 25.09.23 check by. EB

job no. dwg no. rev.
2161 PL01





APPENDIX C

Scottish Water GIS Plan



Warning! Damaging a Large diameter Trunk Main (12"/300 mm and above) can result in loss of life and major Water Supply and Water Quality problems. If you're planning any excavation work in the vicinity of any large diameter mains shown on our maps, you MUST contact Scottish Water to arrange a site visit on Tel No: 08000 778 778 WELL IN ADVANCE OF THE WORKS.

| | | | |
|--|---|--|---|
|  <p>The representation of physical assets and the boundaries of areas in which Scottish Water and others have an interest does not necessarily imply their true positions. For further details contact the appropriate District office.</p> | <h2>230907 - Greenways, Banchory</h2> | <p>© Crown copyright and database rights 2023 OS 100023460. You are granted a non-exclusive, royalty free, revocable licence solely to view the Licensed Data for non-commercial purposes for the period during which Scottish Water makes it available. You are not permitted to copy, sub-license, distribute, sell or otherwise make available the Licensed Data to third parties in any form. Third party rights to enforce the terms of this licence shall be reserved to OS.</p> |  <p>The Bridge 6 Buchanan Gate Steps Glasgow G33 6FB</p> |
| <p>Date Plotted: 16/11/2023</p> | <p>SCALE: 1:5,291</p> | <p>Plotted By: GOlteanu@cameronross.co.uk</p> | <p>Tel No: 08000 778 778</p> |

APPENDIX D

C+R - Drainage Calculations

Calculation: Pre & Post Development Site Run-Off Calculation
 Project: 230907 - Greenways, Kirkton of Durriss, Banchory

| | |
|--------------|------------|
| Sheet No. | 1 |
| Contract No. | 230907-000 |
| Date | 16/11/2023 |
| Designer | GCO |

| | | | |
|---------------------------|---------------------|---|----------------------------------|
| Site Area, Total | 2000 m ² | 0.2 ha | 0.5 km ² (min. 0.5km) |
| SAAR | 900 mm | From Wallingford Vol 3 Annual Rainfall Chart | |
| Soil Type | 2 | | |
| SOIL (Soil Index) | 0.30 | | |
| Flow offsite, QBAR rural | = | $0.00108 \times \text{AREA}^{0.89} \times \text{SAAR}^{1.17} \times \text{SOIL}^{2.17}$ | |
| | = | 122.27 l/sec | |
| Therefore QBAR rural / ha | = | 2.45 l/sec/ha | 0.5 l/sec for this site |

Equivalent 1, 30, 100 and 200 year throttle rates applicable for hydrological growth curve 1 for North Scotland

| | |
|-----------------|------|
| 1 year factor | 0.85 |
| 10 year factor | 1.45 |
| 30 year factor | 1.90 |
| 100 year factor | 2.45 |
| 200 year factor | 2.80 |

Therefore greenfield limiting discharge rates are:

| | | | | |
|-----------------|------|----------|-----|---------------------|
| 1 year factor | 2.08 | l/sec/ha | 0.4 | l/sec for this site |
| 10 year factor | 3.55 | l/sec/ha | 0.7 | l/sec for this site |
| 30 year factor | 4.65 | l/sec/ha | 0.9 | l/sec for this site |
| 100 year factor | 5.99 | l/sec/ha | 1.2 | l/sec for this site |
| 200 year factor | 6.85 | l/sec/ha | 1.4 | l/sec for this site |

Post-development Run-off Calculation

| | | |
|--------------------------------------|--------------------|--------|
| Total Impermeable Area = | 255 m ² | 0.0 ha |
| Hardstanding covers 12.8 % of site | | |
| Allowable Post-development Run-off = | 0.1 | l/sec |

Calculation: Orifice Plate Calculation

Project: 230907 - Greenways, Kirkton of Durris, Banchory

| | |
|--------------|------------|
| Sheet No. | 1 |
| Contract No. | 230907-000 |
| Date | 16/11/2023 |
| Designer | GCO |

$$Q = C_d \times A_o \times \text{Sqrt}(2 \times g \times H)$$

Calc

0.90 l/s

Flow rate (l/s)

0.5 H

Head of Water (m)

0.62 C_d

Discharge coefficient dependent upon the orifice shape (typical 0.62)

9.81 g

Acceleration due to gravity m/s²

Orifice Dia

d = 25 mm

Calculation: Proposed Surface Water Filter Trench
 Project: 230907 - Greenways, Kirkton of Durris, Banchory

| | |
|--------------|------------|
| Sheet No. | 1 |
| Contract No. | 230907-000 |
| Date | 16/11/2023 |
| Designer | GCO |

Design Rainfall Additional flow multiplier 30%

From Wallingford Procedure, Volume 3 - Maps
 Rainfall Depths (M5 - 60minutes)

M5_60 = 16 mm

from BRE Digest 365, fig. 1

rainfall ratio $r = 0.250$

Design Storm Return Period,

P = 50 years

| D mins | M5_D | Z2 | R = MP_D | Rainfall Intensity |
|--------|---------|-------|----------|--------------------|
| 5 | 4.7 mm | 2.106 | 9.8 mm | 118 mm/hr |
| 10 | 7.0 mm | 2.142 | 15.0 mm | 90 mm/hr |
| 15 | 8.7 mm | 2.172 | 18.8 mm | 75 mm/hr |
| 30 | 12.0 mm | 2.202 | 26.4 mm | 53 mm/hr |
| 60 | 16.0 mm | 2.201 | 35.2 mm | 35 mm/hr |
| 120 | 21.0 mm | 2.153 | 45.2 mm | 23 mm/hr |
| 240 | 27.3 mm | 2.115 | 57.7 mm | 14 mm/hr |
| 360 | 31.7 mm | 2.082 | 66.0 mm | 11 mm/hr |
| 600 | 38.3 mm | 2.040 | 78.1 mm | 8 mm/hr |
| 1440 | 52.7 mm | 1.969 | 103.8 mm | 4 mm/hr |
| 2880 | 67.8 mm | 1.914 | 129.9 mm | 3 mm/hr |

Scotland and Nth Ireland

England and Wales

Measured Infiltration Rate

0.00E+00

| | | |
|-------------------------|----------|----------------|
| Infiltration Rate (eff) | 0.00E+00 | m/s |
| Impermeable Area | 260 | m ² |
| Width | 4.00 | m |
| Depth | 0.50 | m |
| Fixed Lgth (optional) | | m |

(OR Outlet Flow Rate 0.9 l/s)
 ie 3.24 m³/hr

Gravel Pit or Trench Soakaway

Gravel, free volume 35%

Insert 100% for Net Storage Chamber Volume

| D | Length | Inflow | Outflow | Storage Req | t _{s50} (hrs) | Storage Prov | Overflow |
|------|--------|--------|---------|-------------|------------------------|--------------|----------|
| 5 | 3 | 2.5 | 0.3 | 2.3 | 0.35 | 2.3 | |
| 10 | 5 | 3.9 | 0.5 | 3.4 | 0.52 | 3.4 | |
| 15 | 6 | 4.9 | 0.8 | 4.1 | 0.63 | 4.1 | |
| 30 | 7 | 6.9 | 1.6 | 5.2 | 0.81 | 5.2 | |
| 60 | 8 | 9.2 | 3.2 | 5.9 | 0.91 | 5.9 | |
| 120 | 8 | 11.8 | 6.5 | 5.3 | 0.81 | 5.3 | |
| 240 | 3 | 15.0 | 13.0 | 2.0 | 0.31 | 2.0 | |
| 360 | 0 | 17.2 | 19.4 | 0.0 | 0.00 | 0.0 | |
| 600 | 0 | 20.3 | 32.4 | 0.0 | 0.00 | 0.0 | |
| 1440 | 0 | 27.0 | 77.8 | 0.0 | 0.00 | 0.0 | |
| 2880 | 0 | 33.8 | 155.5 | 0.0 | 0.00 | 0.0 | |

Time until system can cope with additional influx of 50% design storage volume < 24 hrs ~ OK

Provide gravel filled storage pit, 8.5 m x 4 m x 0.5 m deep

Minimum Free Volume = 35%

Total Pit Volume = 17m³



APPENDIX E

C+R – Drainage Drawings

General notes:

This drawing is to be read in conjunction with all relevant Engineers and Architects drawings.





Refer to Architects design drawings for internal drains and details.

Drainage - all sewers to be constructed in accordance with Scottish Water's publication "Sewers for Scotland (v. 1) - A technical specification for the design and construction of sewerage infrastructure"





Sewers laid within roads should have a minimum cover of 1.5m from final road surface to pipe soffit level. Where this cannot be achieved then rigid pipes shall be protected by a full concrete surround, similarly, flexible pipes shall be protected by a concrete slab at a depth less than 1.2m.

The Contractor is responsible for checking the line and level of all existing services prior to commencement of work. Any discrepancies from design information must be reported to the Site Manager and Site Engineer in writing.

Surface Drainage

-  New surface water drain (smooth wall pipe) unless otherwise noted on drawing. To remain private and maintained by landowner.
-  New silt trap/catch pit (450mm Ø)
-  New control chamber (450mm Ø) with 2% orifice to orifice plot runoff to 0.9L/s
-  New stone filled filter trench. To remain private and maintained by landowner.

Foul Drainage

-  New foul drain (150mm uPVC)
-  New foul inspection chamber (450mm Ø)
-  New sampling chamber (450mm Ø)
-  New One2Clean Graf Package Treatment Plant for 6 population equivalent (PE) or similar approved



| Rev | Revision Description | Initials | Date |
|-----|----------------------|----------|------|
| | | | |

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Client:
Mr David Edgar

Project:
**Replacement Dwelling
 Greenways
 Kirkton of Durris**

Drawing Title:
Drainage Layout

Status:
Planning

Scale: 1:200 @ A1 Date: 16/11/2023
 By: GCO Checked: GGC Approved: GGC

Dwg. No. 23090 7-000-CAM-DR-C-400 Rev. -

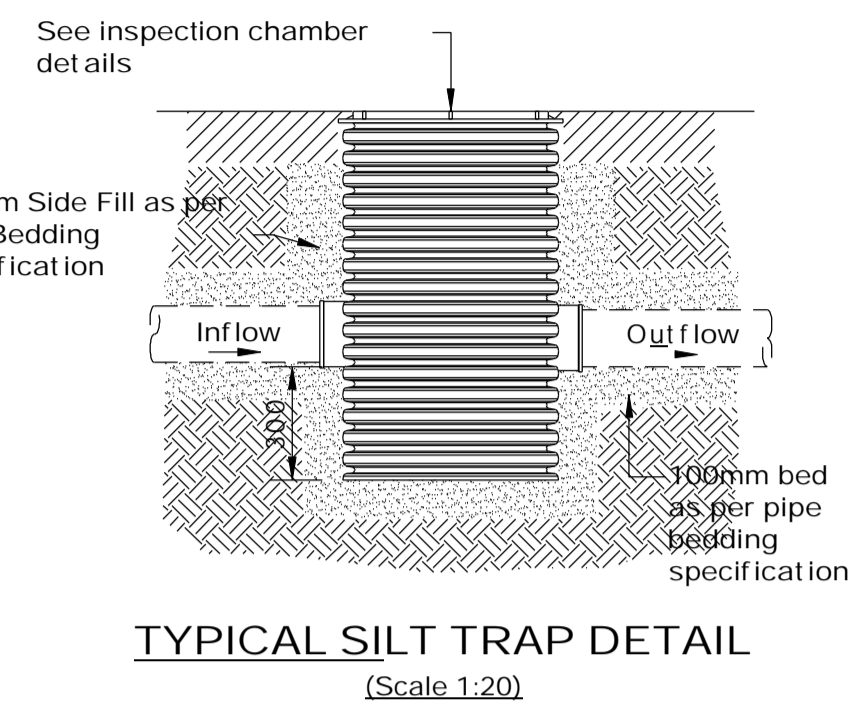
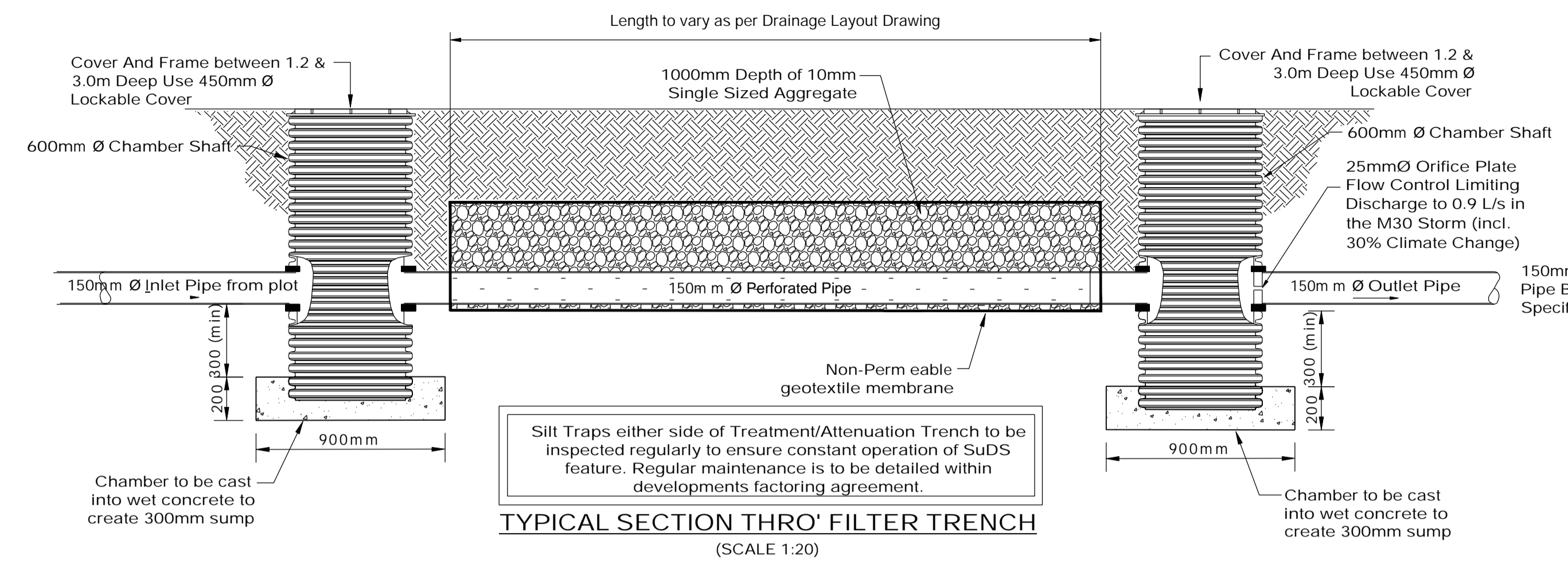
General notes:

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Sewers laid within roads should have a minimum cove 1.5m from final road surface to pipe soffit level. Wh cannot be achieved then rigid pipes shall be protecte full concrete surround, similarly, flexible pipes shall t protected by a concrete slab at a depth less than 1.2i

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NOTE:

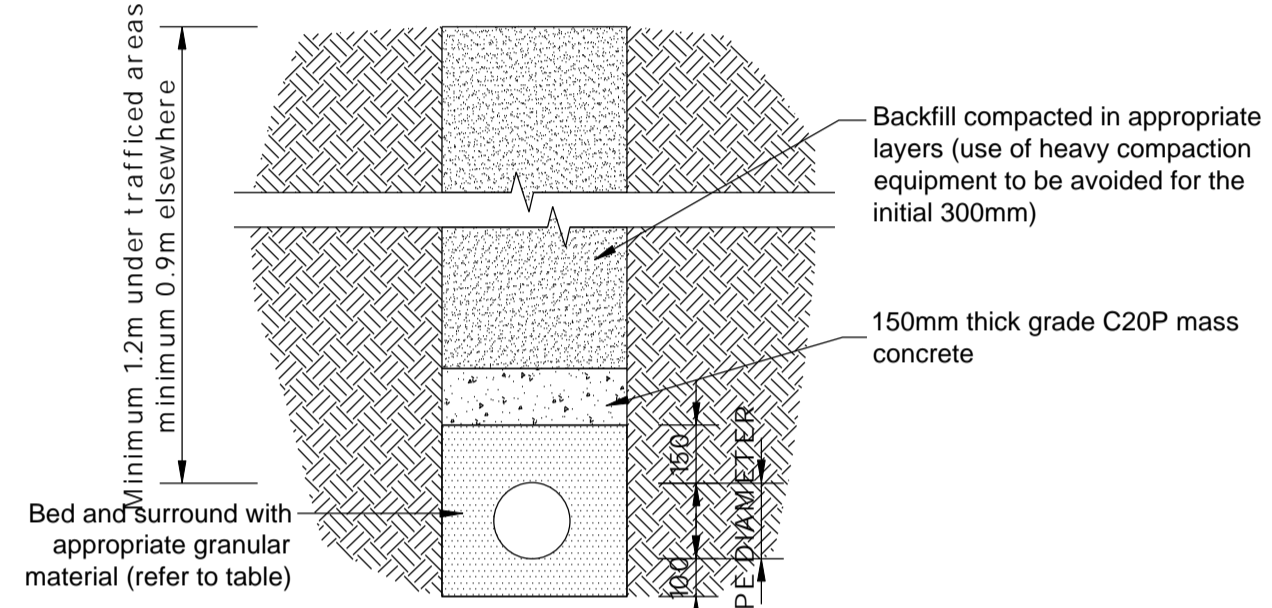
All mains and service pipe installations will require a degree of over excavation. Trenches should be double width and backfilled with clean, imported, certified, inert material to a minimum of 1.3m deep and 0.8m wide.

| Nominal Pipe Size | Granular Material Size |
|-------------------|--|
| 150mm | 10 or 14mm nominal single size or 14 to 5mm course graded |
| 225mm and over | 10, 14 OR 20mm nominal size or 14 or 20 to 5mm course graded |

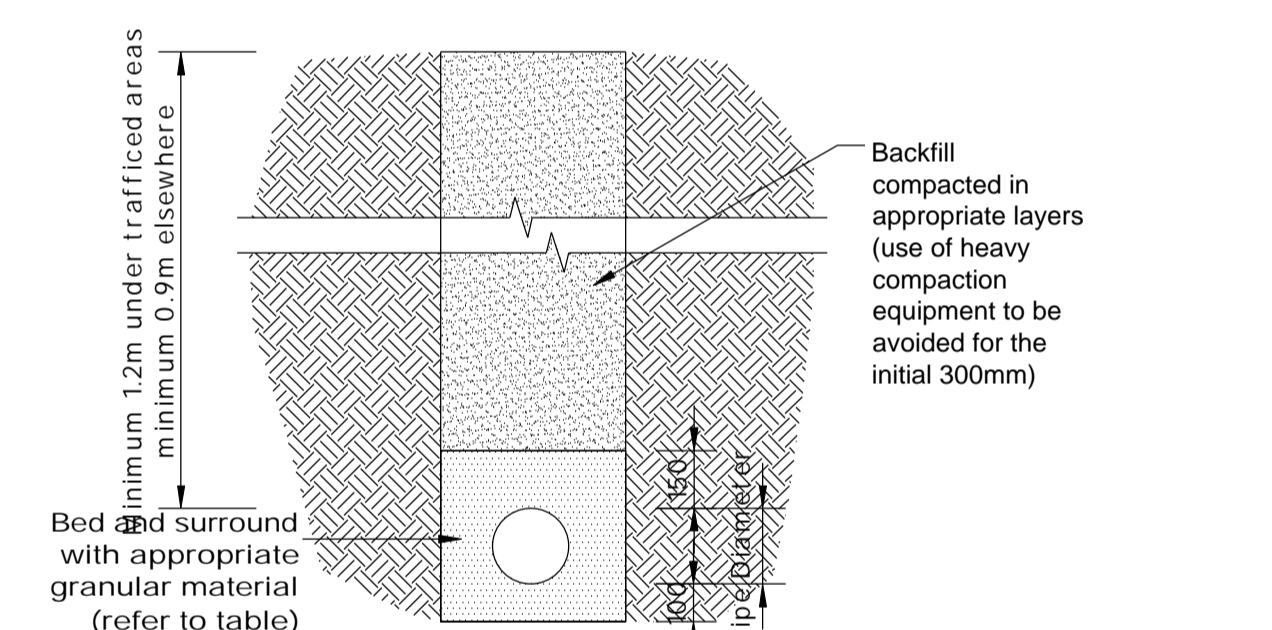
GRANULAR BEDDING MATERIAL TABLE

SUITABILITY OF MATERIALS

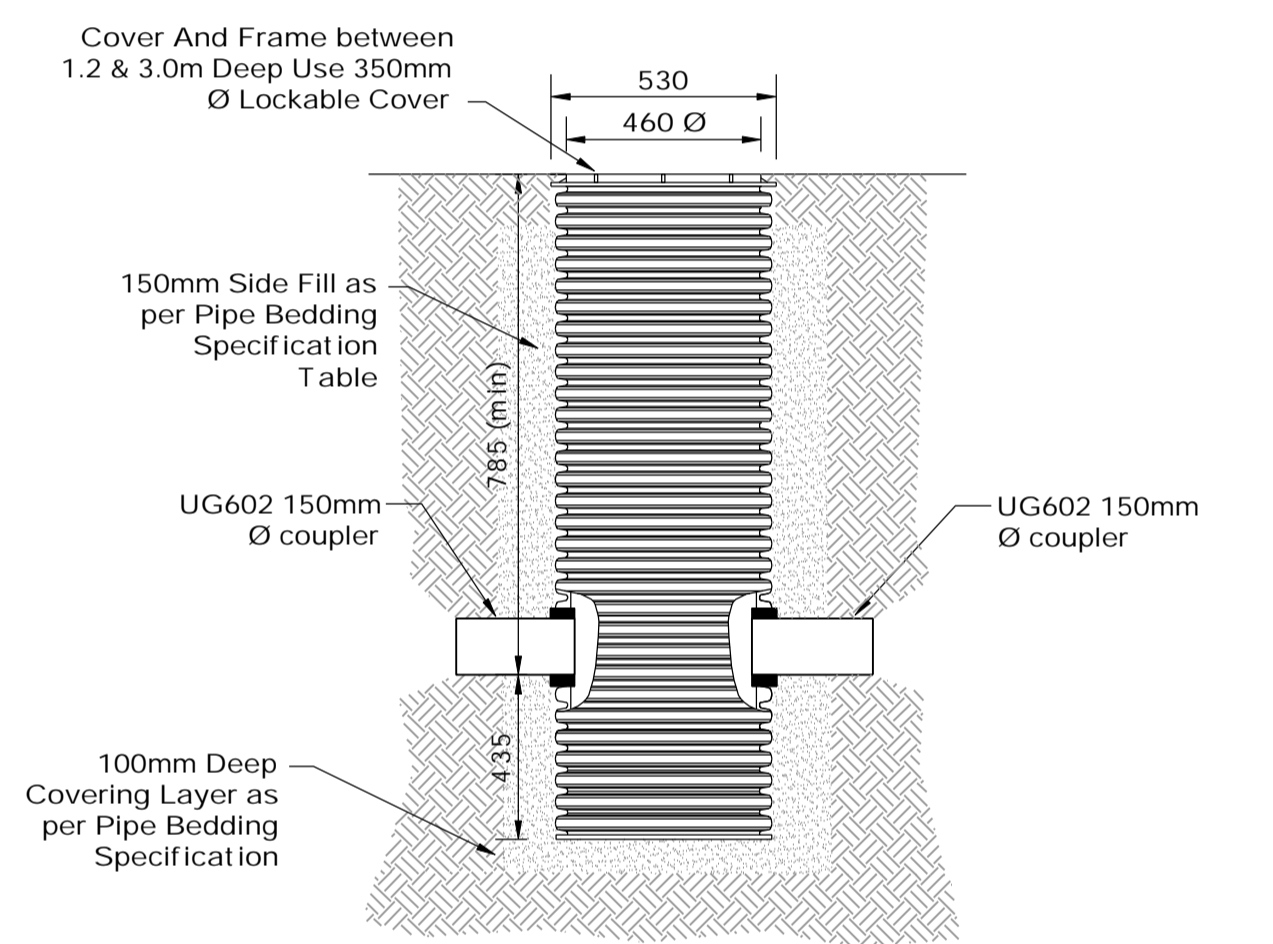
The number of below-ground joints should be minimised, and joints welded where possible, to reduce risk of contamination entering the pipe through leaking joints. Extra care should be taken to avoid the introduction of contaminated soils or water into the pipe-work during installation.



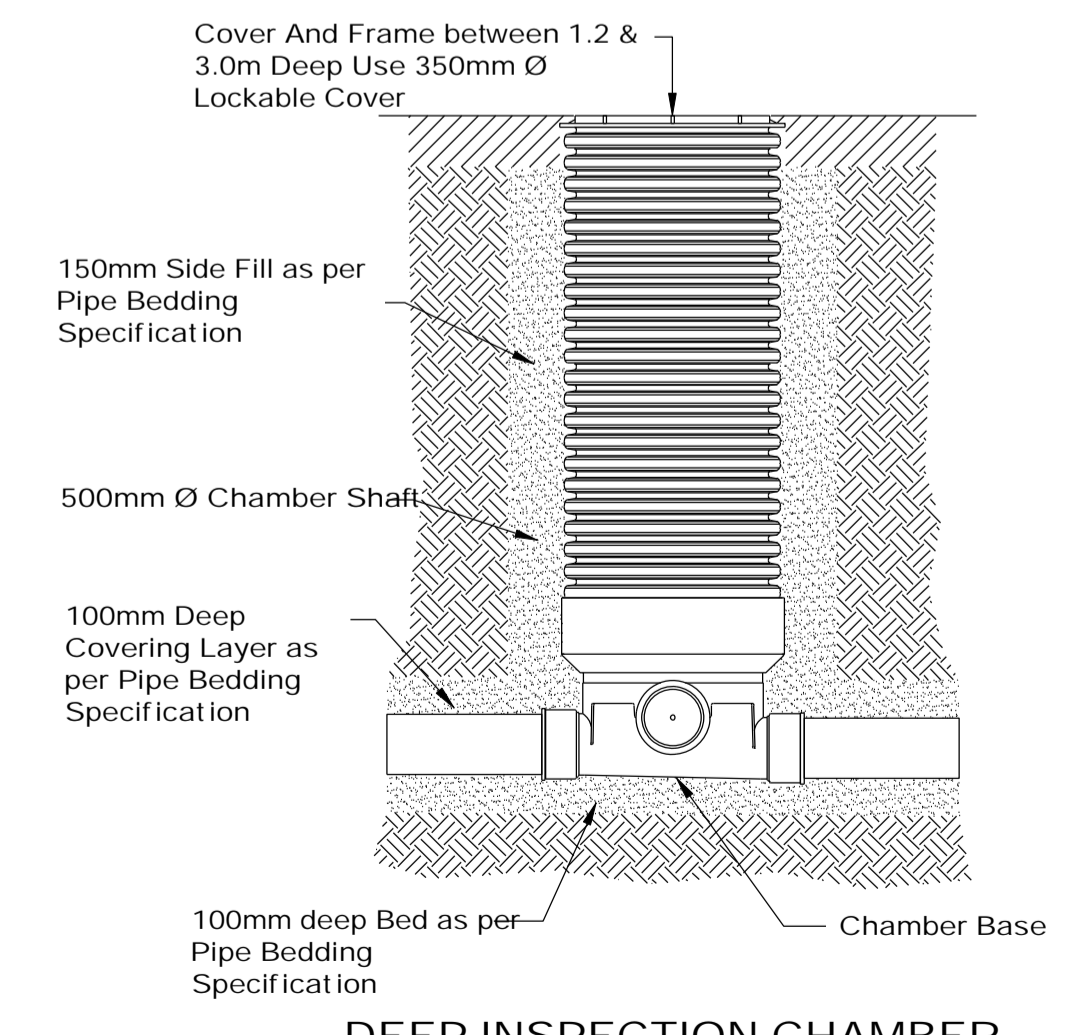
CONCRETE PROTECTION DETAIL (PVC)
(Scale 1:20)



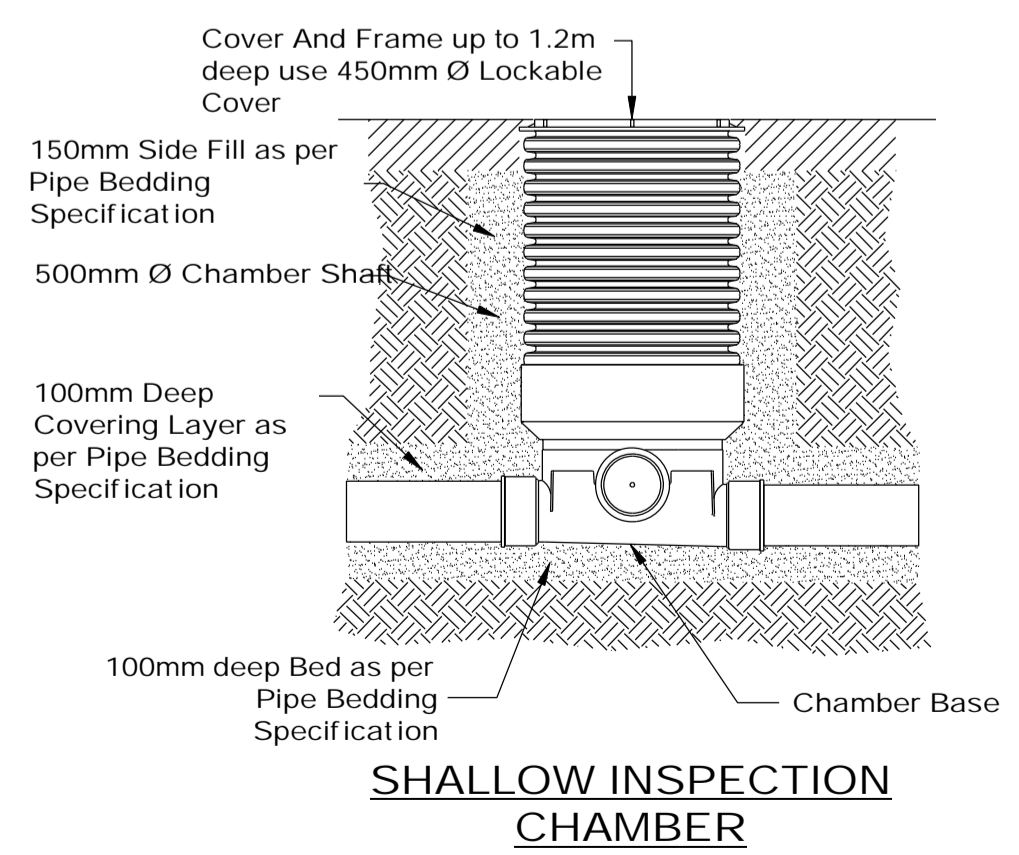
PIPE BEDDING DETAIL (PVC & VC)
(Scale 1:20)



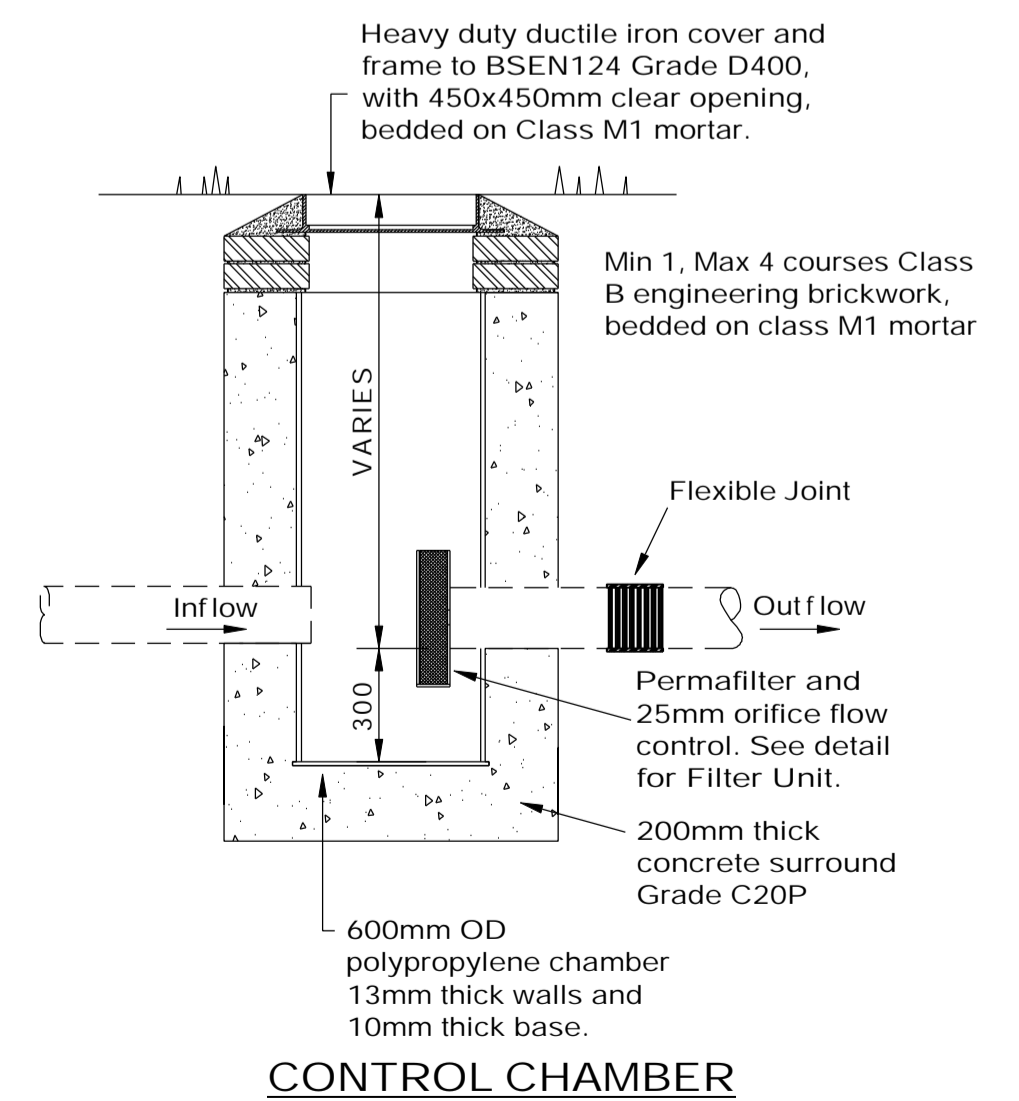
Ridgiform Separate Silt Trap/ Sampling Chamber
SCALE 1:20 (Suitable for Depth of up to 3 Meters)



DEEP INSPECTION CHAMBER
(Scale 1:20)
DEPTH TO INVERT 1.2 to 3.0m



SHALLOW INSPECTION CHAMBER
(Scale 1:20)
DEPTH TO INVERT NOT EXCEEDING 1.2m



CONTROL CHAMBER DETAIL FOR FILTER TRENCH
(Scale 1:20)

| Rev | Revision Description | Initials | Date |
|-----|----------------------|----------|------|
| | | | |

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Client:
Mr David Edgar

Project:
**Replacement Dwelling
Greenways
Kirkton of Durris**

Drawing Title:
Drainage Construction Detail

Status:
Planning

Scale: As Shown @ A1 Date: 16/11/2023
By: GCO Checked: GGC Approved: GGC

Dwg. No.
23090 7-000-CAM-DR-C-460 Rev. -

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Civil+Structural Engineering Expertise

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