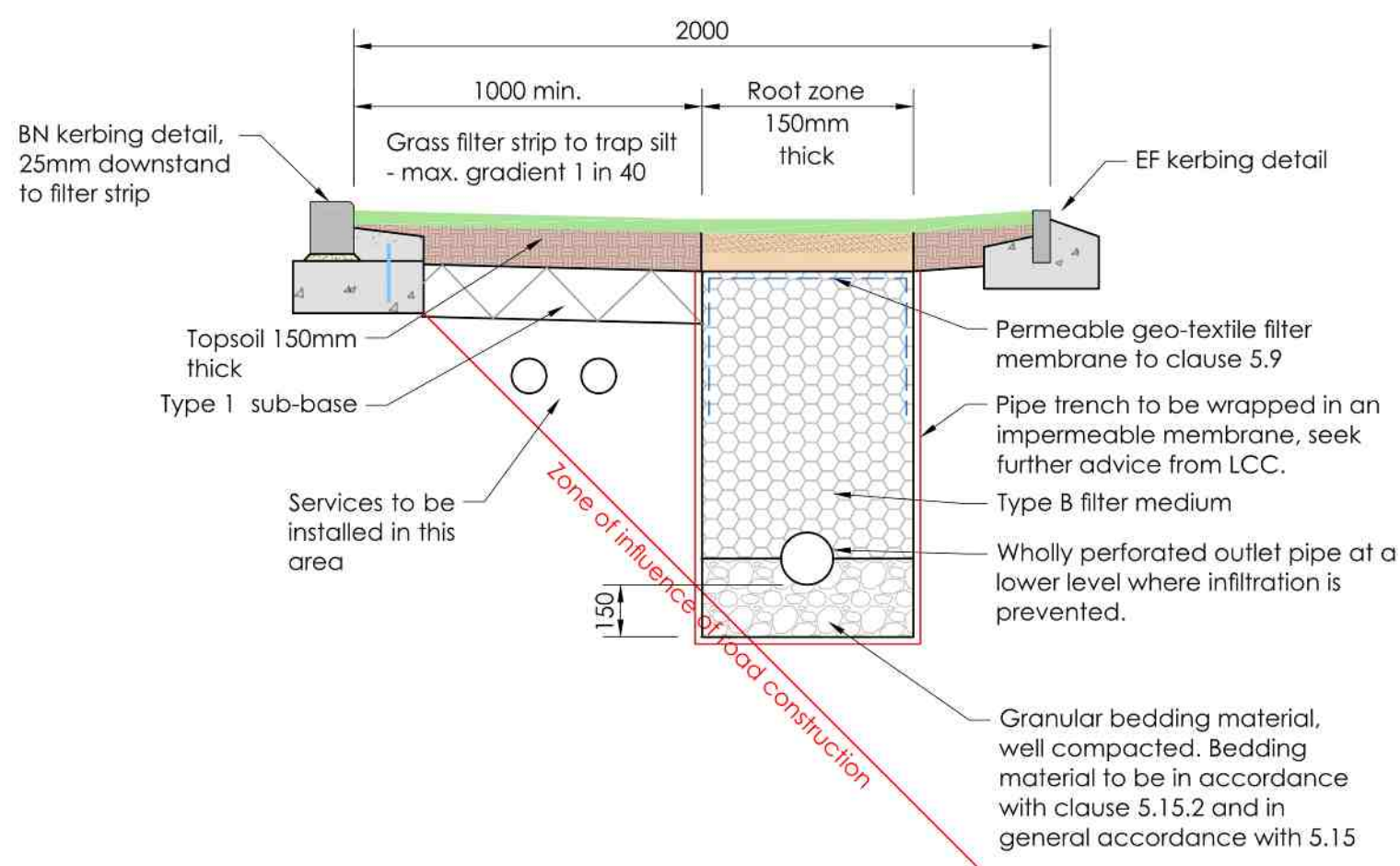
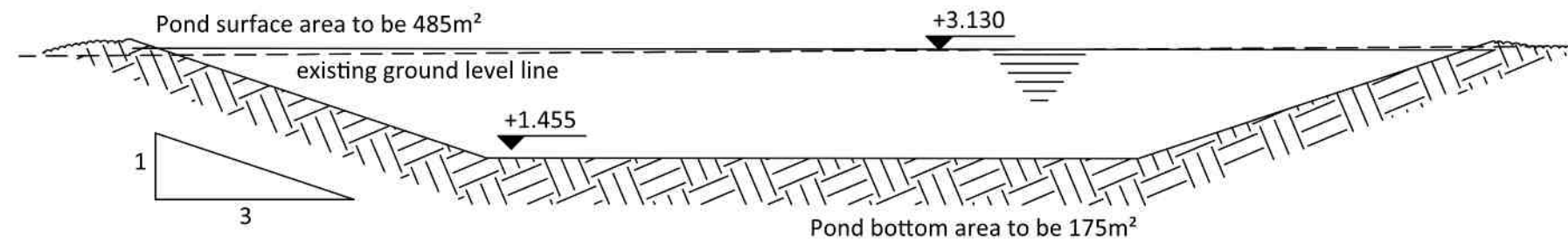


**Notes**

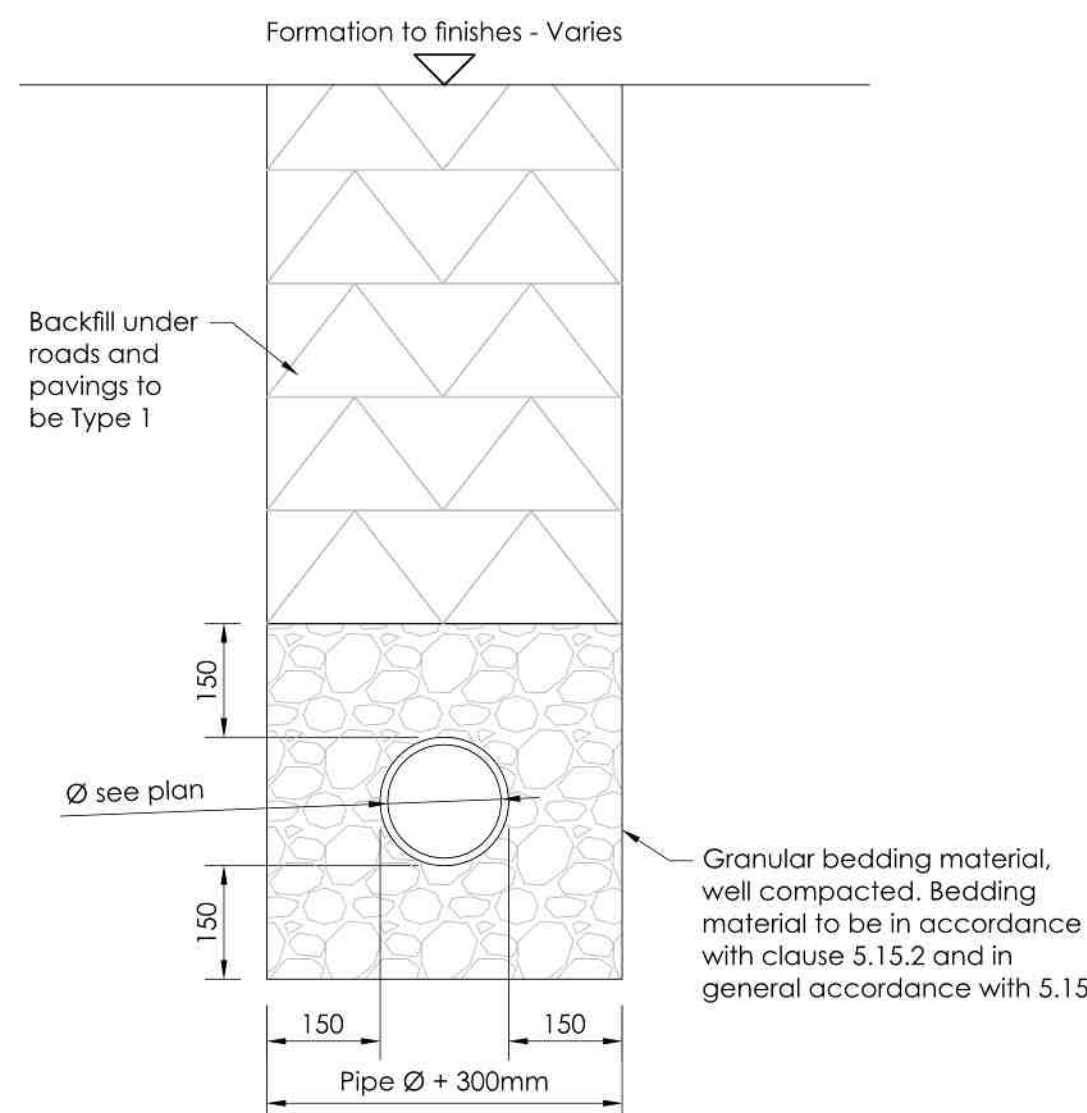
1. Rootzone to consist of 70/30 mix of sand/topsoil as clause 6.2.
2. Type B filter medium to be open graded and in accordance with clause 5.13, with a minimum porosity of 30%.

LCC Figure 5/1 Filter Drain Detail

(Scale 1:120)

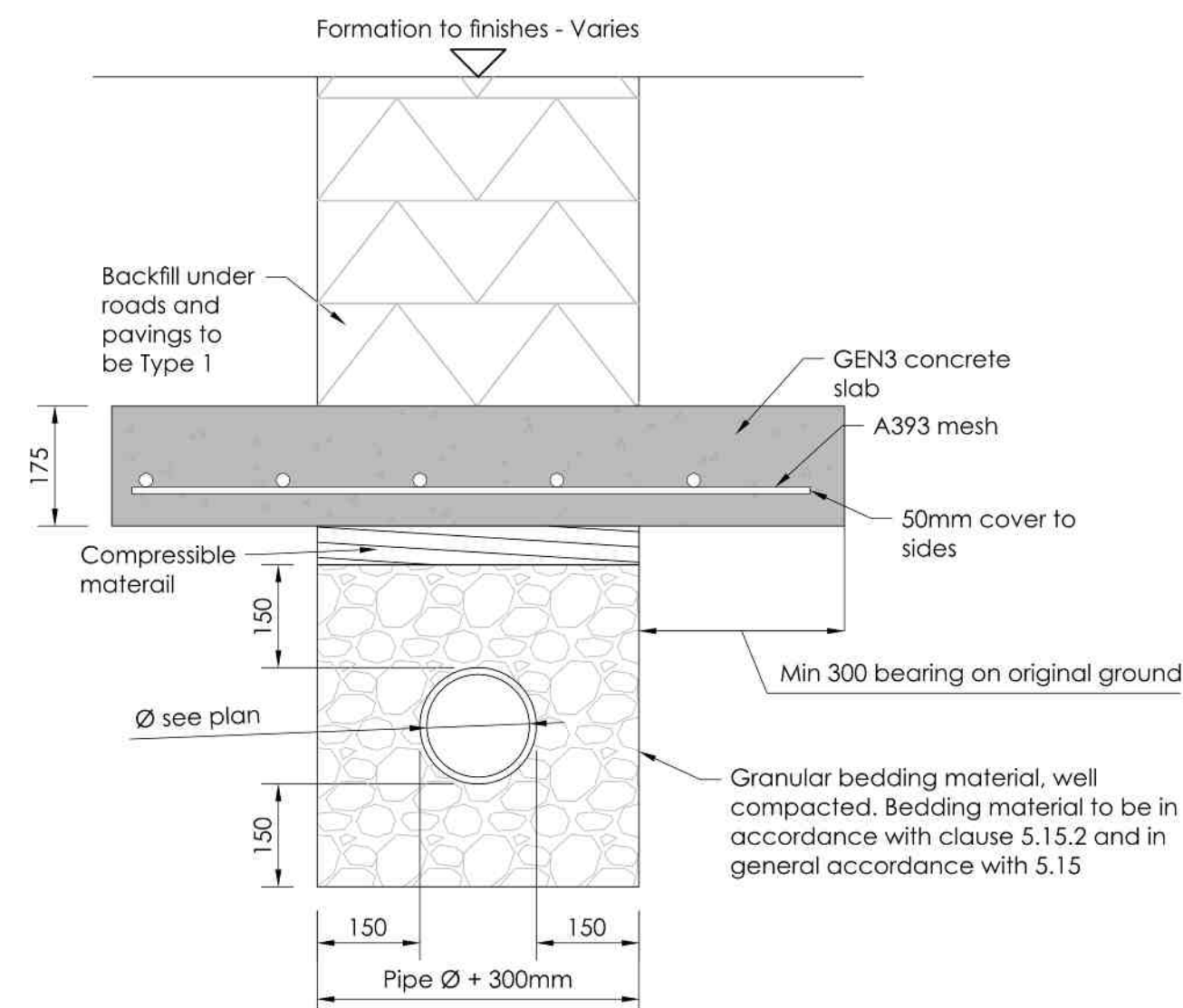
**Pond Section A-A**

(Scale 1:100)

**LCC Granular Bed & Surround**

(Where pipe has more than 1.2m cover in roads, or more than 0.9m cover in non-trafficked areas)

(Scale 1:10)

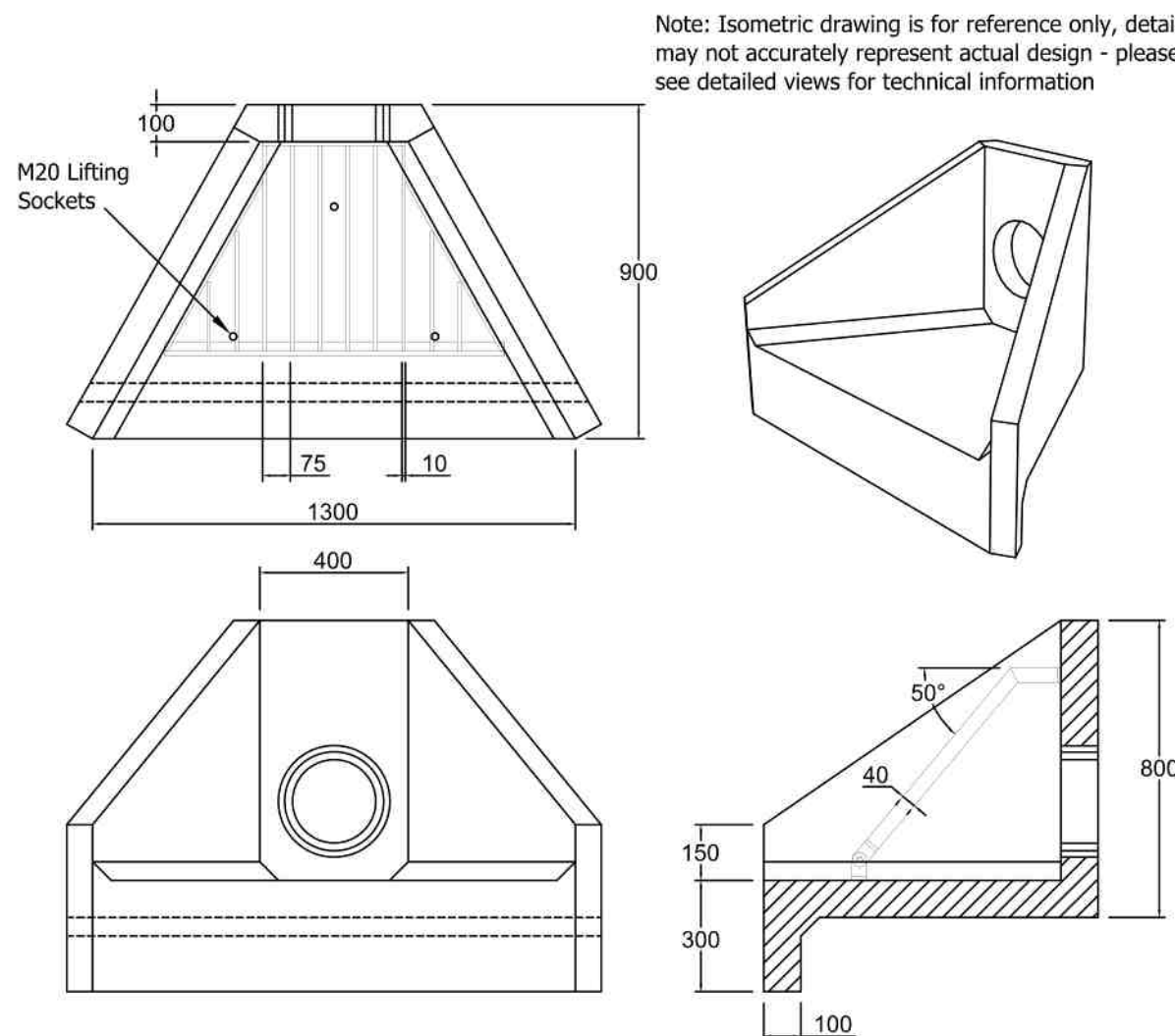
**LCC Concrete Slab Pipe Protection**

(Where pipe has less than 1.2m cover in roads, or less than 0.9m cover in non-trafficked areas)

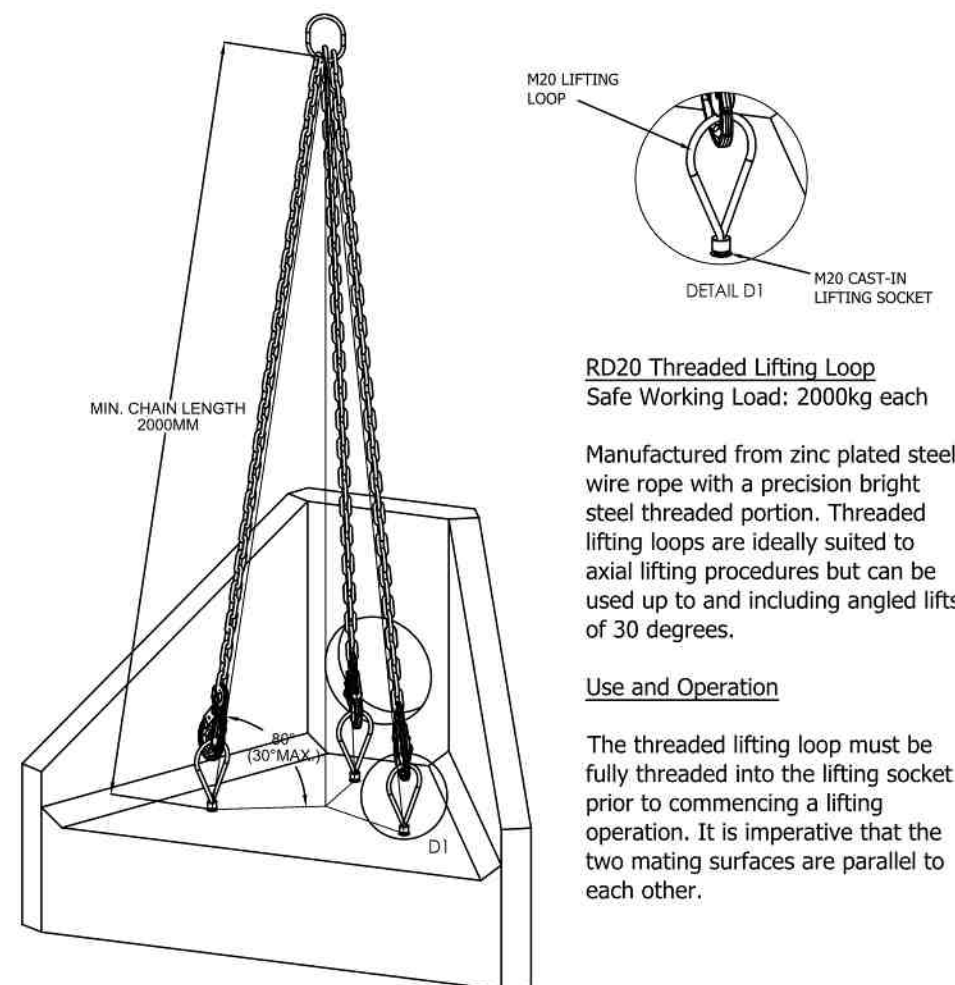
(Scale 1:10)

Notes

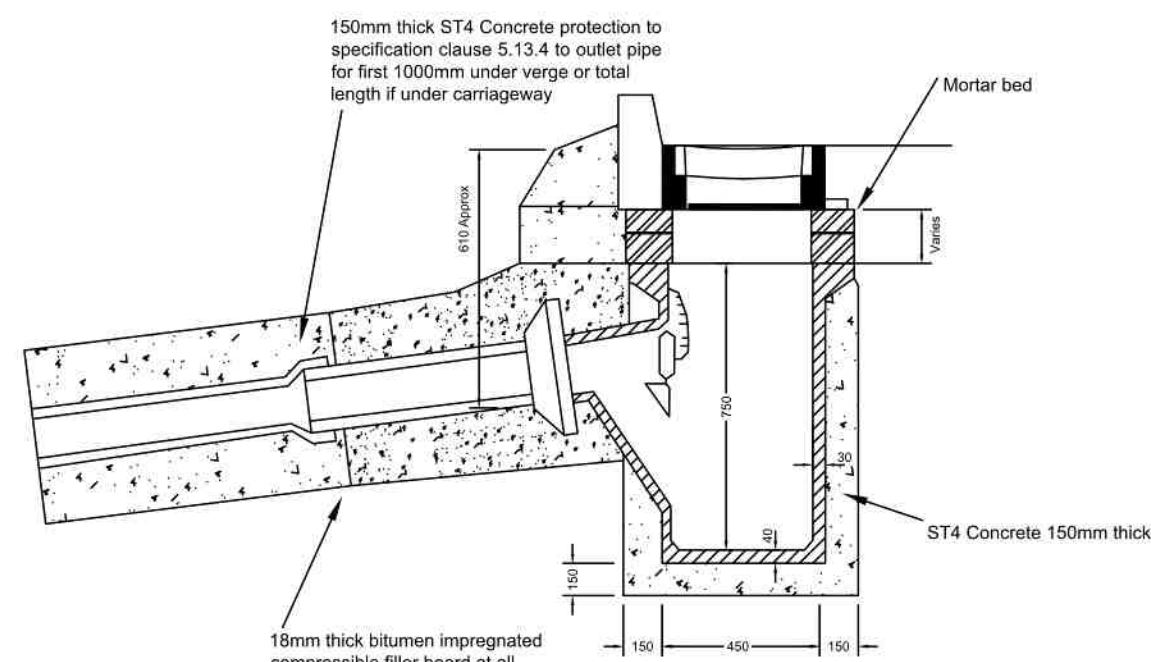
- Granular bed and surround preferred with the addition of a reinforced concrete protection slab where the depth of cover beneath the highway is less than 1.2m or less than 0.9m in non trafficked areas.
- For gully laterals, refer to detail below.

**H3C Headwall made by Althon or similar**

(Scale 1:20)

**Use and Operation**

The threaded lifting loop must be fully threaded into the lifting socket prior to commencing a lifting operation. It is imperative that the two mating surfaces are parallel to each other.

**Road Gully Detail**

(Scale 1:20)

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.

The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Note:

Construction to be in accordance with Sewers for Adoption 6th Edition.

STANDARD DRAINAGE NOTES:

1. Adoptable pipes with cover less than 1200mm to be Ductile Iron.
2. Adoptable Pipes with cover more than 1200mm to be Vitrified Clay.
3. All pipe materials below adoptable Highways to be Vitrified Clay or Ductile Iron or concrete.
4. All pipe materials for private drainage outside of adopted Highways to be PVC.
5. All gravity pipe runs to be tested to a standing head of 1500mm head of water above the invert at the head of the pipe run (but not exceeding 4000mm at the lower end).
6. For details of bed and surround requirements refer to long-sections and standard details. In all other situations provide 150mm of 10mm single-sized rounded gravel bedding and surround.
7. Except where specifically shown otherwise, pipes to be a minimum of 1200mm below roads/driveways and 900mm below gardens/fields.
8. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a single appliance is connected, or 12m where a group of appliances is connected.
9. Step-irons shall not be fitted in any chambers unless specified otherwise.
10. Manhole/Gully covers shall be regulated to suit finished levels and crossfalls.
11. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
12. Drains passing beneath buildings to have minimum 100mm granular fill or flexible filling around pipe. Where the pipe crown is within 300mm of the underside of the slab, pipe shall be encased in concrete integral with the slab.
13. Drains passing through walls below ground level to have minimum 50mm clearance all round and opening in walls to be masked all round with rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete lintels to support wall construction above.

The specification in all respects shall be in accordance with the current Development Road and Sustainable Drainage Specification and Construction publicatin in force in the country at the time of construction

The minimum longitudinal fall for highways without channel blocks shall be 1 in 150, and with channel blocks 1 in 250

General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Development will be reinstated to the Development Road and Sustainable Drainage Specification and Construction at the developers' own cost at the agreement of the inspecting Highway and Flood Authority Officer

No private surface water shall discharge onto the adoptable highway

No private strctural features shall overhang the adoptable highway

No private retaining walls exceeding 1.37 metres shall be within 3.66 metres of the highway boundary

E	11.12.2019	S11	Revised Filter Strip and Pipe surround details.
D	27.06.2019	ZEK	Revised Road gully detail
C	29.05.2019	ZEK	Storm water drainage strategy, drainage details, manhole schedule, revised plan, pond size
B	09.04.2019	ZEK	Highways initial comments (Footpath, S278, S38, M1 cover levels, Kerb details, Filter drain detail, construction details, Chart 1, Colours, added easements, bedding, Vehicle crossings, contour Exceedence)
A	07.03.2019	ZEK	General amendments.
REVISION	DATE	DRAWN	DESCRIPTION

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CLIENT	Seagate Homes Ltd		
PROJECT	Residential development off Station Road, Surfleet		
DRAWING	Drainage Details-Adoptable (Sheet 2 of 2)		
DRAWN ZEK	PROJECT DESIGNER TBP	PROJECT DIRECTOR KB	
DATE 01.02.2019	SCALE VAR	PAPER SIZE A1	
DRAWING NUMBER	428.RS.821		
Working in partnership with Ralph Charman Associates & Eleven Consultants			