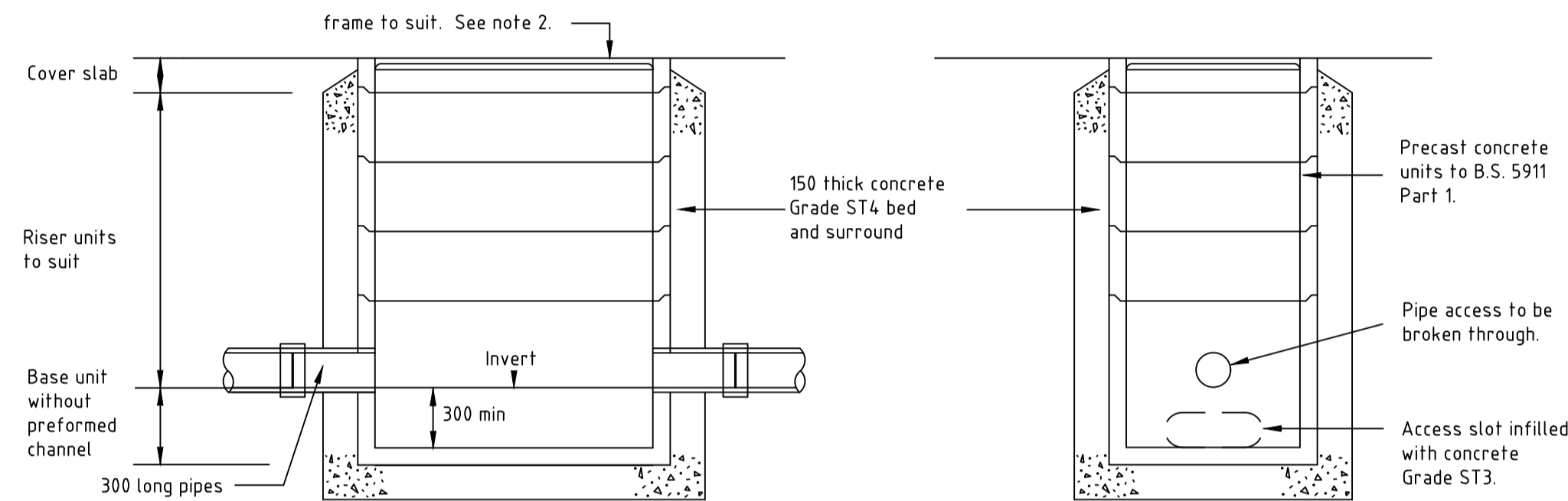


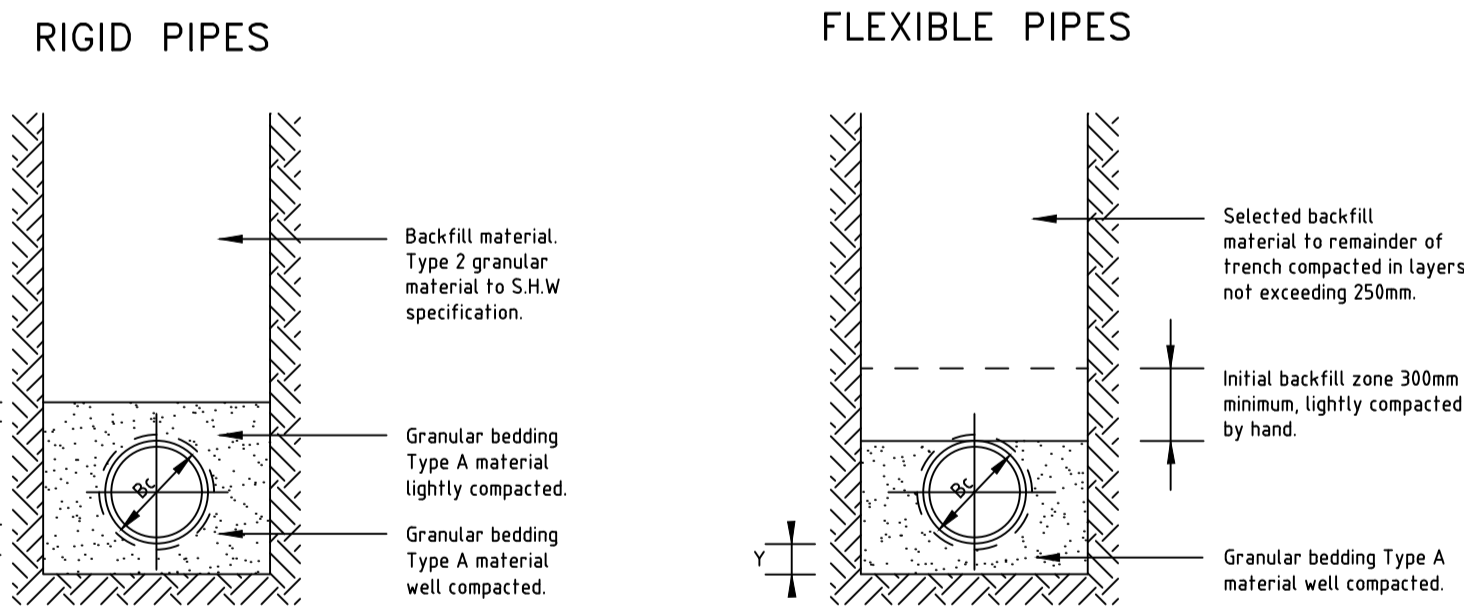
DEPTH m	MINIMUM CHAMBER SIZE mm x mm
0 - 1	600 x 450
1 - 2	1200 x 750 with step irons

**RECTANGULAR PRECAST  
CONCRETE MANHOLE**

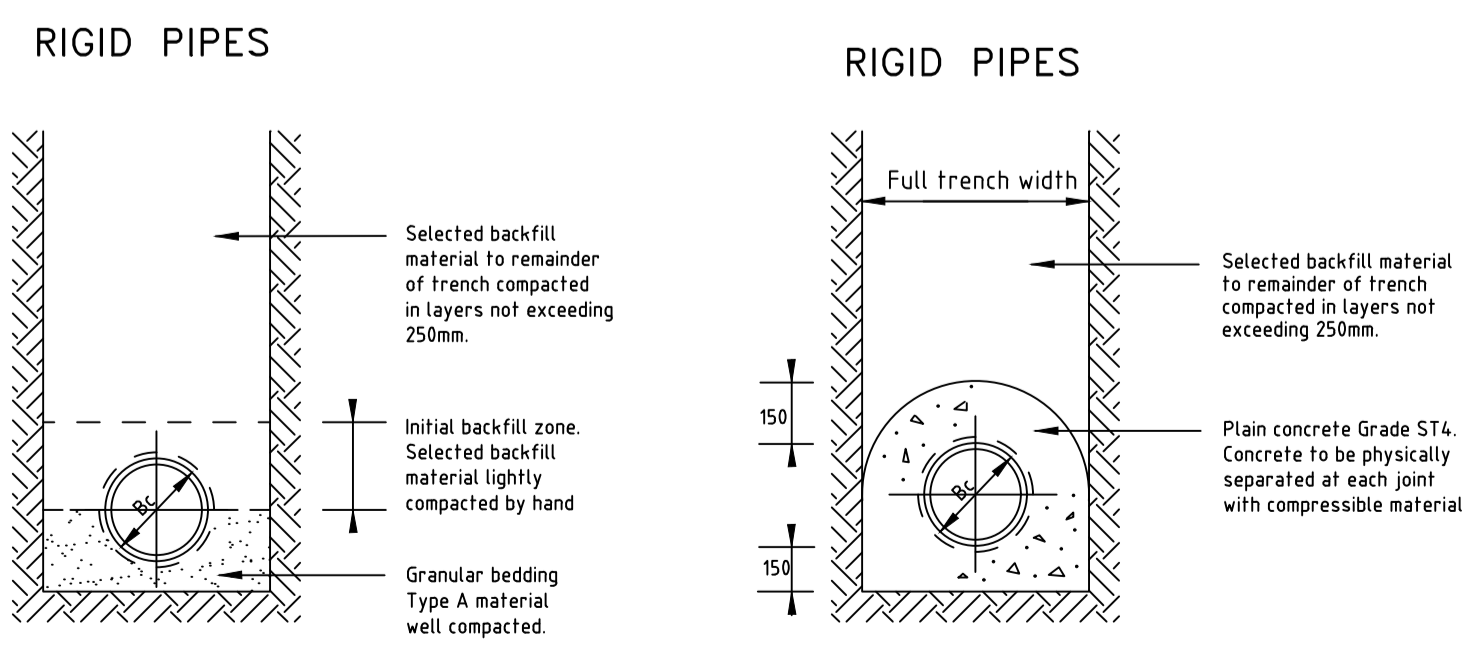


DEPTH m	MINIMUM CHAMBER SIZE mm x mm
0 - 1	600 x 450
1 - 2	1200 x 750 with step irons

**RECTANGULAR PRECAST  
CONCRETE CATCHPIT**



**CLASS S BEDDING  
(On Trafficked areas)**



**CLASS B BEDDING  
(Non-Trafficked areas)**

**CLASS A BEDDING**  
For cover to pipes of less than 100m in paved areas

**GRANULAR BEDDING**

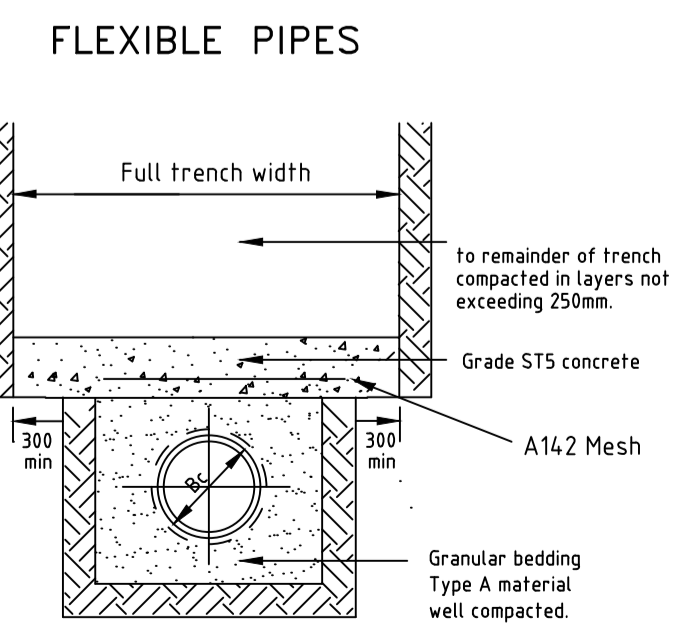
Nominal bore of pipe (mm)	Alternative Aggregate sizes (mm)	
	Single sized	Graded
100	10	-
150	10 or 14	14 to 5
225-300	10, 14 or 20	14 to 5 or 20 to 5

Granular bedding for pipes and backfilling material for temporary drains (trench sub-drains) shall consist of aggregates from natural sources to BS EN 12620 and BS EN 12620-1 or sintered pulverised fuel ash complying with the relevant provisions of BS 3892, sized in accordance with the above table.

Selected fill 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 on 100mm and 40mm sieves respectively.

**TRENCH WIDTHS**

Pipe Dia	Trench width max.	Y
100	600	100
150	600	100
225	700	100
300	750	100



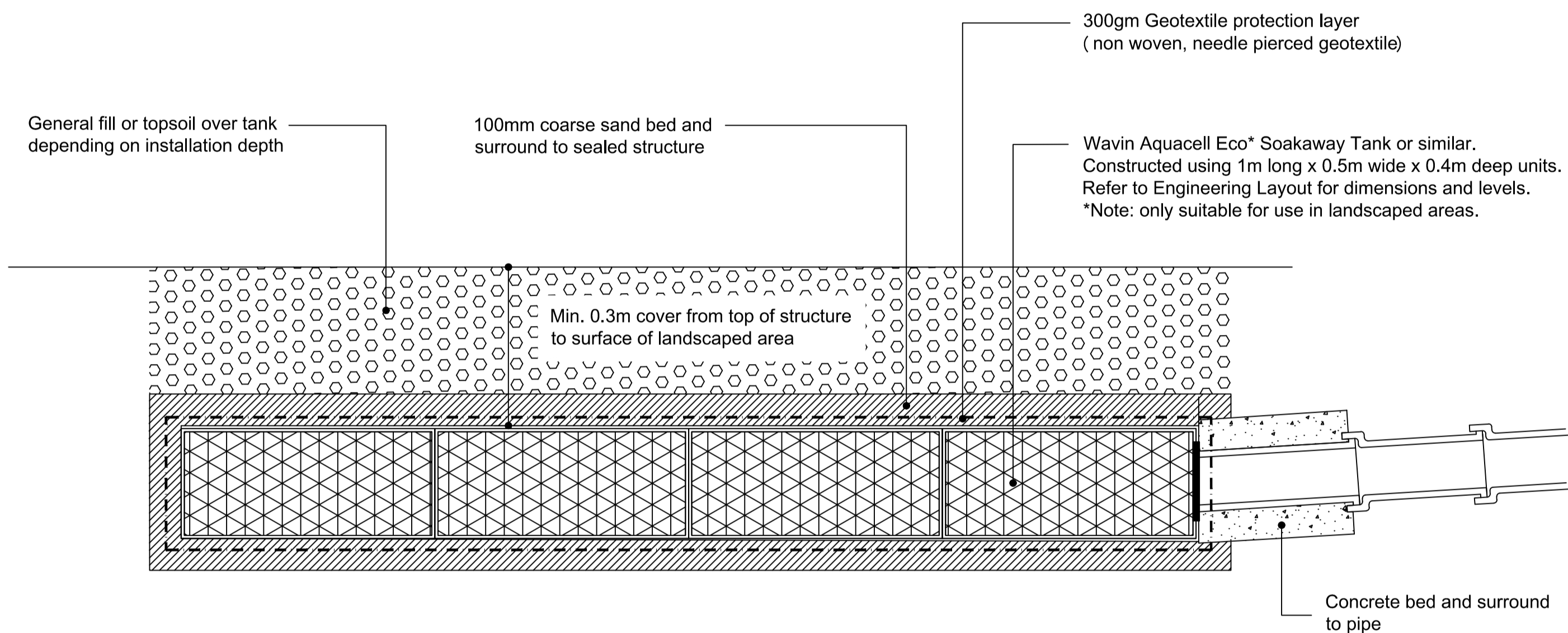
**CLASS A BEDDING**  
For cover to pipes of less than 0.9m in paved areas

**INSTALLATION NOTES**

1. Excavate the trench to the required depth ensuring that the plan area is slightly greater than that of the AquaCell Units.
2. Lay 100mm bed of coarse sand or non angular granular material, level and compact.
3. Lay the geotextile over the base and up the sides of the trench.
4. Lay the AquaCell Units parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. AquaCell units should be laid in a brick bonded' formation (i.e. to overlap the joints below).
5. Fix the Wavin Adaptors to the AquaCell Units as required and connect pipework.
6. Wrap and overlap the geotextile covering the entire AquaCell structure.
7. Lay 100mm of coarse sand or non angular granular material between the trench walls and the AquaCell structure and compact.
8. Lay 100mm of coarse sand or non angular granular material over the geotextile and compact.
9. Backfill with stone free as-dug material.

**NOTES**

1. Tree root protection (Terram Root Guard or similar) to be provided to vertical faces adjacent to trees.
2. Soakaway structure must be protected from construction traffic. Protection to be as per the guidance provided by the Manufacturer.



**TYPICAL SECTION THROUGH PRIVATE SOAKAWAY TANK**

**Notes**

1. This drawing has been prepared in accordance with the scope of RPS's appointment with its client and is subject to the terms and conditions of that appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
2. If received electronically it is the recipient's responsibility to print to correct scale. Only written dimensions should be used.
3. This drawing should be read in conjunction with all other relevant drawings and specifications.

**Private Drainage Notes:**

1. All materials and workmanship in connection with non adoptable drainage works to comply with BS EN 752 'Drain and Sewer Systems outside buildings' and the 'Building Regulations 2000, Section H - Drainage and Waste Disposal'.
2. Covers and frames to manholes to be :  
a. Trafficked areas - Class C250 (ductile iron)  
b. Non trafficked areas - Class B125 (ductile iron to BS EN 124).
3. Where the crown of the pipe is within 300mm of the underside of the building slab, concrete encasement should be used integral with the slab.
4. Sulphate resisting concrete shall be used in accordance with BRE Special Digest Parts 1-4, if required by the soil conditions.
5. Polypropylene inspection chambers greater than 1200mm deep shall be provided with restricted access not in excess of 350mm diameter.
6. The invert of the bend at the bottom of SVP stacks shall be 750mm below the invert of the lowest branch pipe when the SVP service buildings in excess of 3 stories.

**P1** FIRST ISSUE JB KMc 29.07.16

Rev	Description	By	Ckd	Date

For guidance only. Do not scale off this drawing



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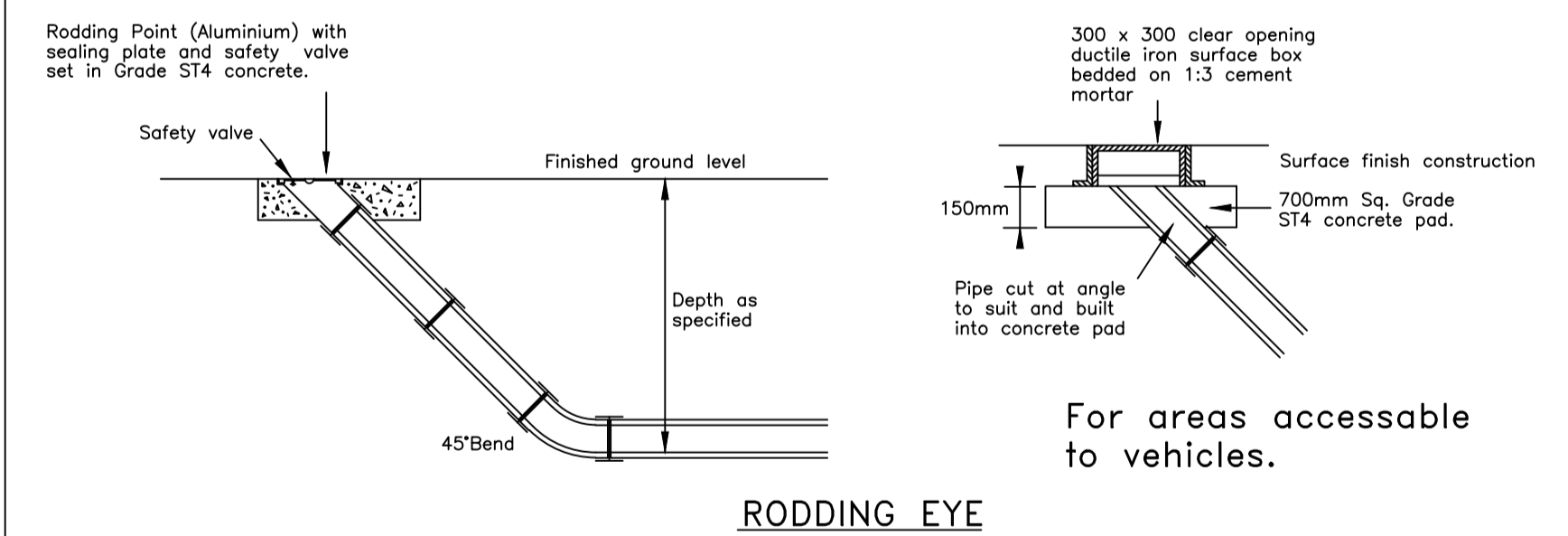
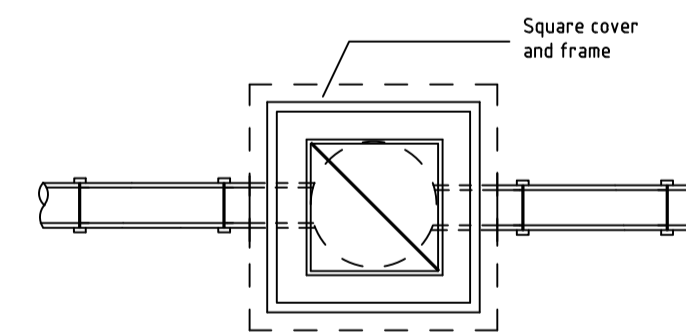


Project **Kingsmere, Bicester  
KM5 & KM22**

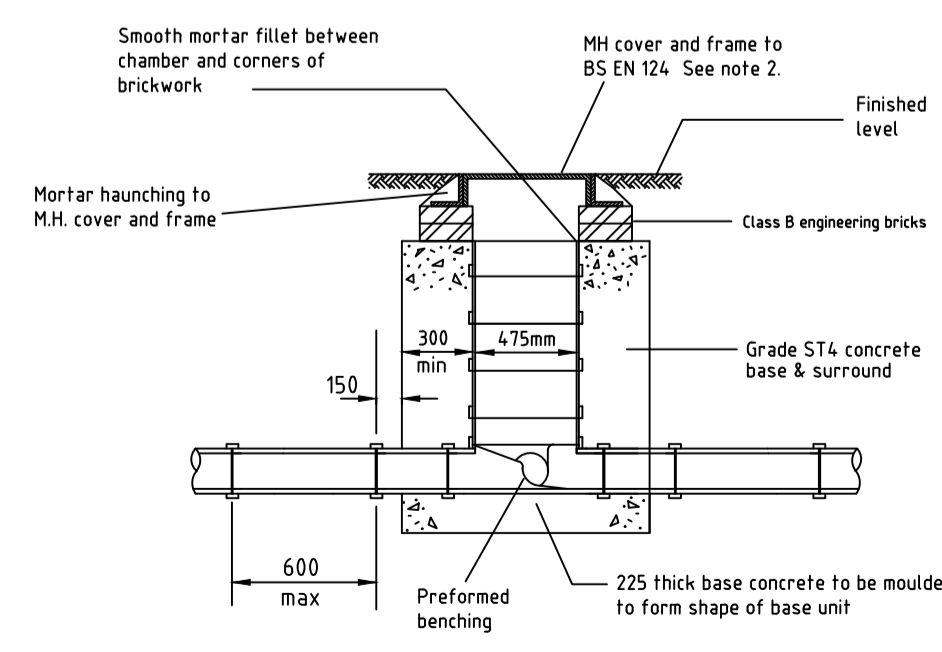
Title **Private Drainage Details**

Status Preliminary Scale NTS @A1 Date Created 29.07.2016  
Project Leader KMc Drawn By JB Checked by KMc

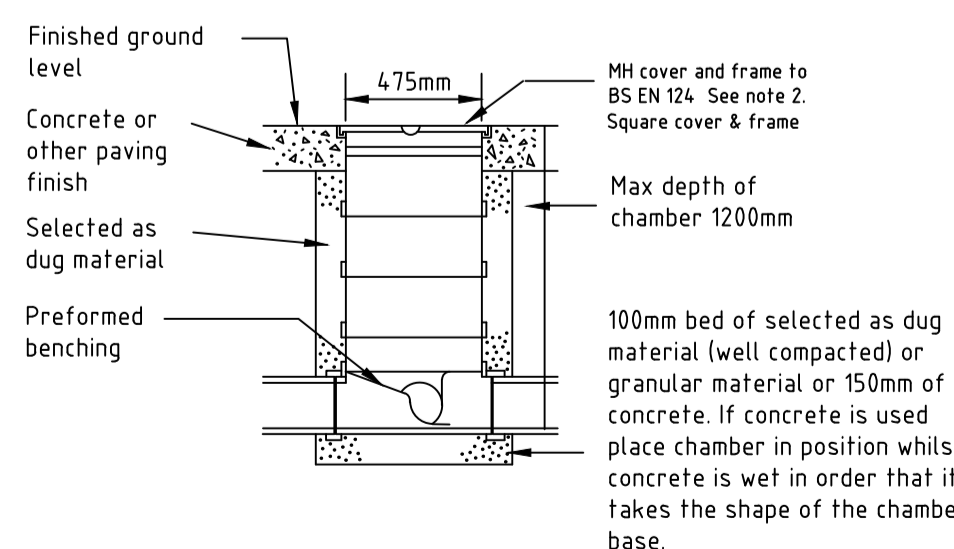
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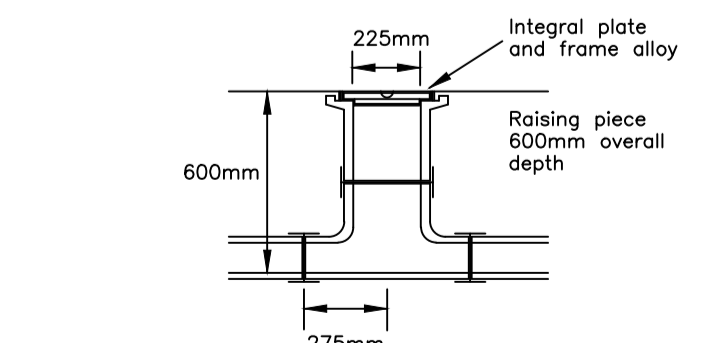
**RODDING EYE**



**POLYPROPYLENE INSPECTION CHAMBER  
TRAFFICKED AREAS**  
Maximum depth to invert 1200mm  
(For depths greater than 1200mm see note 5)



**POLYPROPYLENE INSPECTION CHAMBER  
FOOTPATHS/LANDSCAPED AREAS**  
Maximum depth to invert 1200mm  
(For depths greater than 1200mm see note 5)



**SHALLOW ACCESS  
INSPECTION CHAMBER**  
(maximum depth to invert 600)