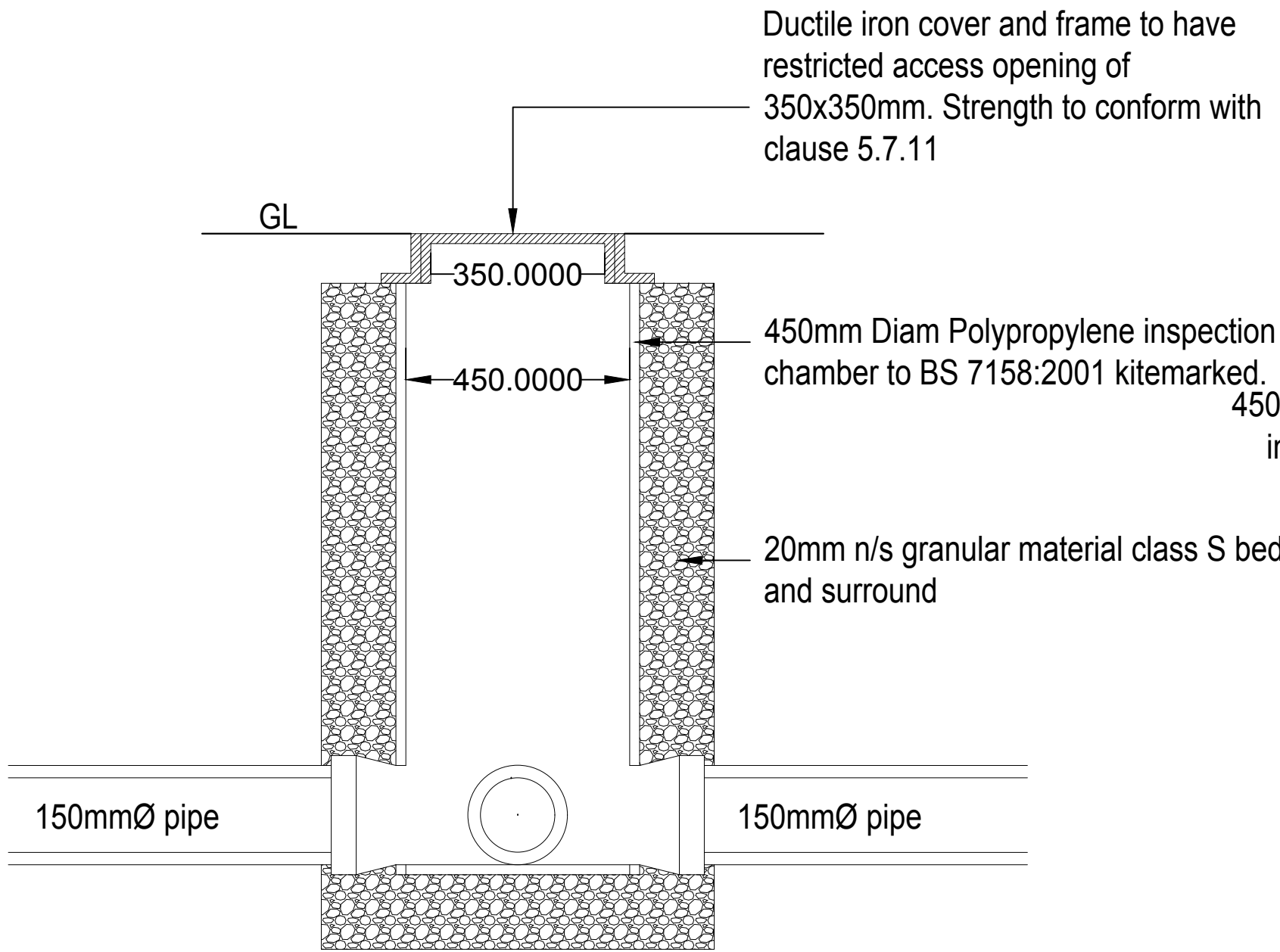


Adoptable materials and workmanship conform to part E of 'Sewers for Adoption' 7th Edition.

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

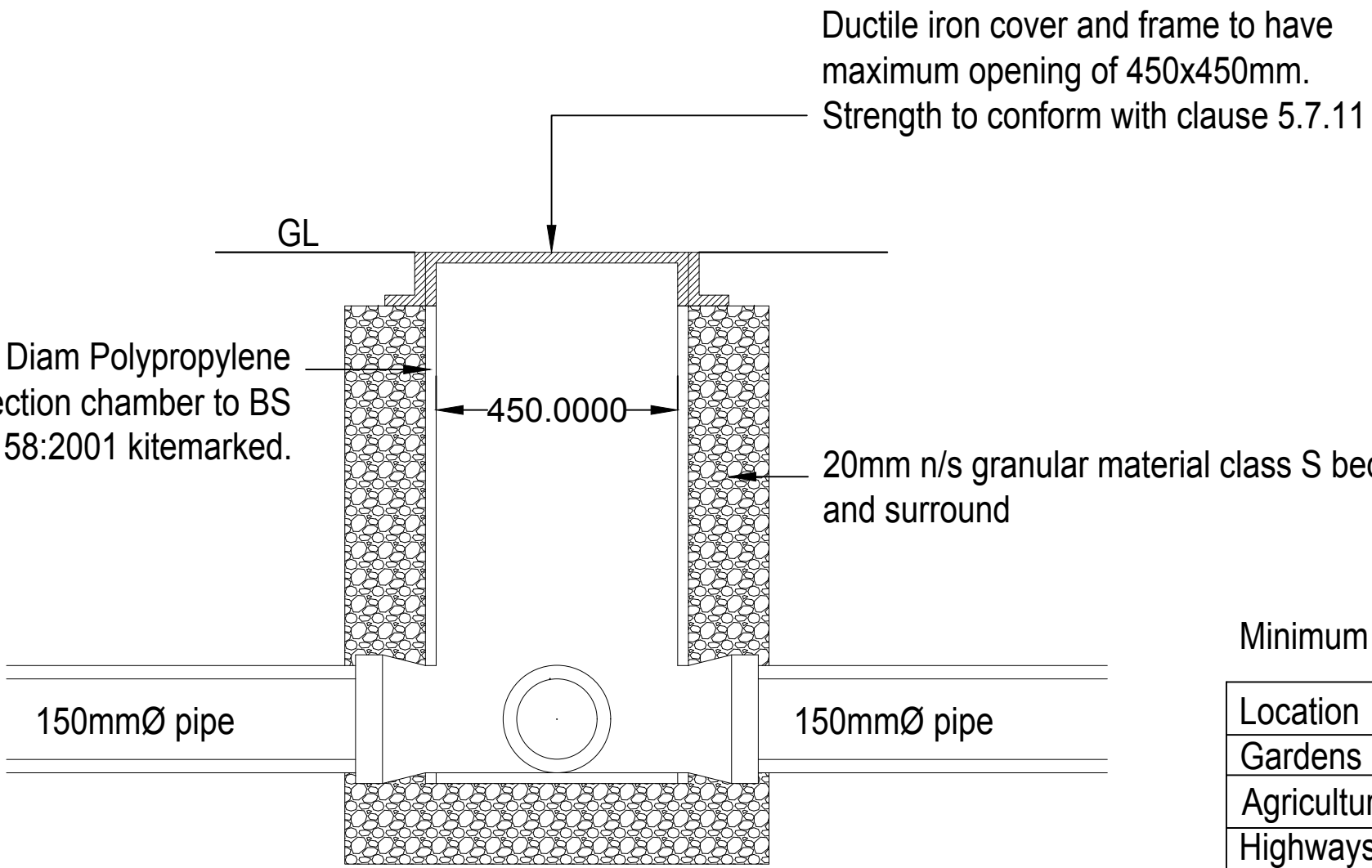
Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.



DEEP DEMARCATION
CHAMBER DETAIL TYPE 1

Depth from cover level to invert level of pipe chamber greater than 1.2m.
All lateral drain diam 150mm



SHALLOW DEMARCATION
CHAMBER DETAIL TYPE 2

Depth from cover level to invert level of pipe chamber less than 1.2m.
All lateral drain diam 150mm

Minimum depth of Lateral drains

Location	Minimum Depth (m)
Gardens	0.35
Agricultural/Open spaces	0.9
Highways (inc footways)	1.2
Domestic driveways major	0.9
Domestic driveways minor	0.5

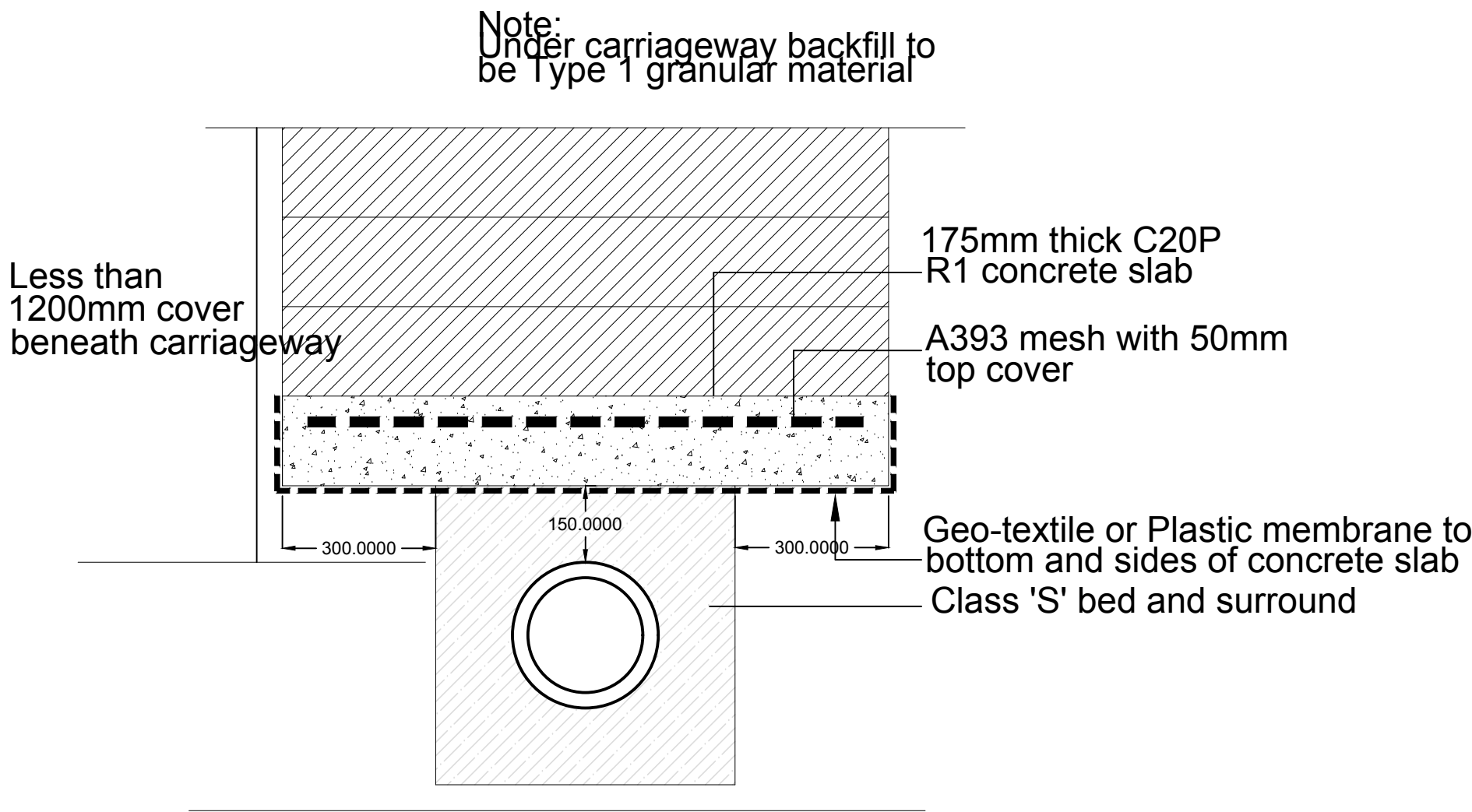
Demarcation chamber covers & frames

Surface	Class (Loading in kN)	Loading
Road	D400	Vehicle Impact
Footway & Driveway	B125	Occasional vehicle loading
Garden	A15	Occasional pedestrian loading

Lateral connection pipes

Diameter (mm)	Gradient	
	Foul	S.W.
150	Min 1:150	Min 1:150

Vitrified clay pipes to BS EN 295 kitemarked.
Unplasticised PVC pipes to BS 4660:200 & BS EN 1401-1 kitemarked.
Structured Wall Unplasticisd PVC pipes to WIS 4-35-01 kitemarked.

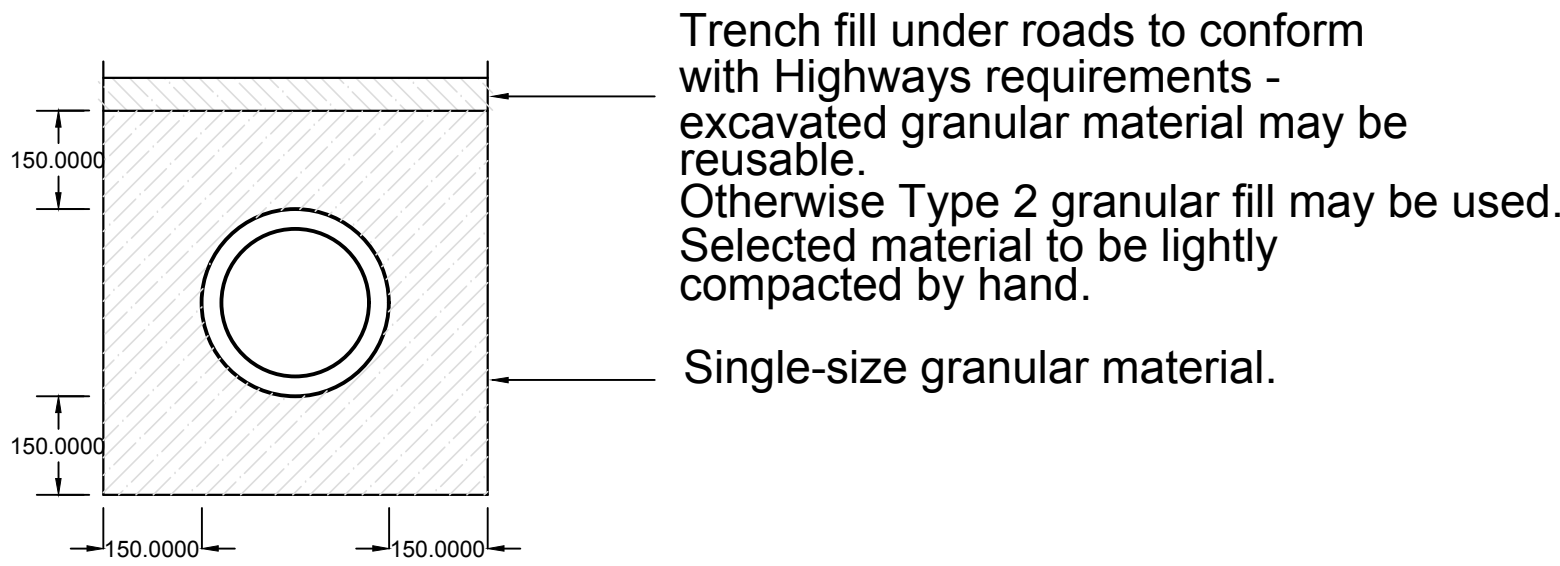


Note:
Under carriageway backfill to be Type 1 granular material

Less than
1200mm cover
beneath carriageway

CONCRETE PIPE PROTECTION

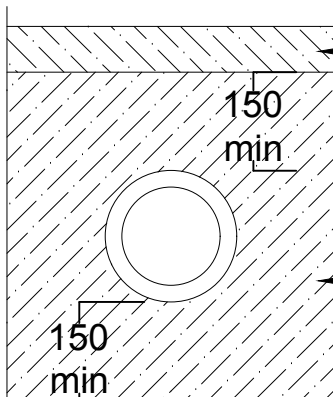
To be used when depth to soffit is less than 1.2m
in vehicular access areas or when depth to soffit is
less than 900mm in non vehicular access areas



Trench fill under roads to conform
with Highways requirements -
excavated granular material may be
reusable.
Otherwise Type 2 granular fill may be used.
Selected material to be lightly
compacted by hand.

Single-size granular material.

Class S Bedding Factor 2.5
Scale 1:10



Trench fill under roads to conform with
Highways requirements.

Single-size granular material.
10mm for 100mmØ pipes.
10 or 14mm for 150mmØ pipes.
14 or 20mm for 225mmØ pipes.

Class S bedding to be used when pipe is more than
1200mm from highway surface. Concrete bed and
surround required when less than 1200mm from
highway surface.

RSK

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Client

**MACBRYDE
HOMES**

Project Title

**Wrexham Road
Holt**

Status

DETAILED DESIGN

Drawing Title

**Drainage Construction Details
Sheet 2 of 4**

Drawn LGS	Date NOV 19	Checked GPY	Date NOV 19	Approved	Date
Scale NTS	Orig Size A1	Dimensions			
Project No. 881986		Drawing File			
Drawing No. 40-16-02					Rev. P2