

600mm long rocker pipe

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straight through precast concrete manhole (max. 300mm pipe size)

-ST4 concrete to

MCDRW Clause

Type Z - Concrete bed and surround

Scale 1:20

Carrier Drain Trench and Bedding Details

Cover slabs and ductile iron cover and frames		
Location	Roadway	Pedestrian area only
Cover	Heavy duty	Medium duty
Cover slab BS 5911-3	Heavy duty	Heavy duty
D.I. cover and frame to IS EN 124	Class D-400	Class B-125
Operating load	Wheel loads up to 40.0 tonnes	Wheel loads up to 12.5 tonnes

Manhole access size as per table NA.22 BS EN 752		
Depth	< 1.5m cover to pipe soffit	> 1.5m cover to pipe soffit
Min clear opening	1200mm x 675mm	600mm diameter

Manhole Details
Scale 1:50

600mm long rocker pipe

precast concrete manhole with internal bend

x + 600max / x+300 min x + 600max / x+300 min Specified trench backfill Clause 1 or 2 material to MCDRW ₋ Clause 1 or 2 Clause 503.4 (iii) material to MCDRW Clause 503.4 (iii) Clause 503 coarse and light weight to Table 5 / 3 of aggregate to Table 5/3 of MCDRW Series 500 Type B - Granular bedding Type S - Granular surround x + 600max / x+300 min 1. Dimension X is the external diameter of the pipe. Specified trench backfill

-Specified trench backfill Clause 503 coarse and light weight aggregate MCDRW Series 500

Precast rings shall be minimum 1200mm internal diameter

-Plastic encapsulated rungs to BS 13101:2002 embedded into wall

2. The minimum and maximum width of trench applies on and below a line of 300mm above the crown of the pipe. Above the 300mm line the trench backfill material shall be as described in Clause 505.2 of

3. The concrete bed or surround may extend to the sides of the trench or be of minimum width. Material to Clause 503.4 (iii) shall be used to fill any voids so

4. For Type Z trench the concrete cover may be formed to a radius batter or horizontal surface. Minimum cover of concrete shall be 150mm.

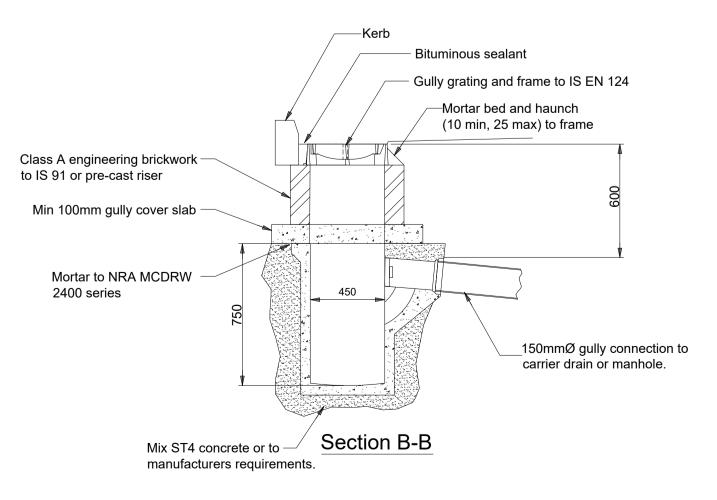
_150mm Clause 505 Type A fine aggregate 300mm lap in geotextile material to Table 5/5 MCDRW Series 500 at top of Type B material Trench wrapped in geotextile material Clause 505 Type B coarse and light weight aggregate Fully perforated to Table 5 / 5 MCDRW filter drain pipe Series 500 x + 300

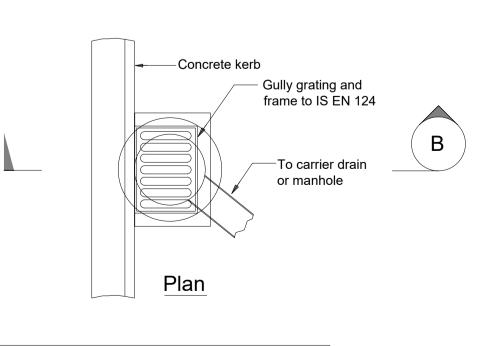
1. Dimension X is the external diameter of the pipe.

2. Minimum trench width is X + 300mm for drains not exceeding 1.5m cover below finished ground level. Use X + 450mm for drains exceeding 1.5m cover 3. Max pipe diameter shall be 450mm

filter drain detail

filter drain trench and bedding detail Scale 1:20





1. Where a gully has a trap the stoppers shall comply with the requirements of BS.5911-4 and IS EN 1917 2. Precast gullies and cover slab to comply with the requirements of BS.5911-6 and IS EN 1917

precast road gully

Scale 1:20

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1. For planning purposes only – not for construction. 2. All dimensions are in millimetres. 3. All levels are in metres above Malin Head datum. Key to Symbols Safety, Health and Environmental Information References MN MN DM A 21/08/24 Planning Issue Rev Date Description Drawn Ch'k'd App'd wind park **CODLING WIND PARK** ONSHORE SUBSTATION DRAINAGE DETAILS Sheet 1 of 2 As Shown Planning STD CWP-TOB-CON-08-02-DWG-0049