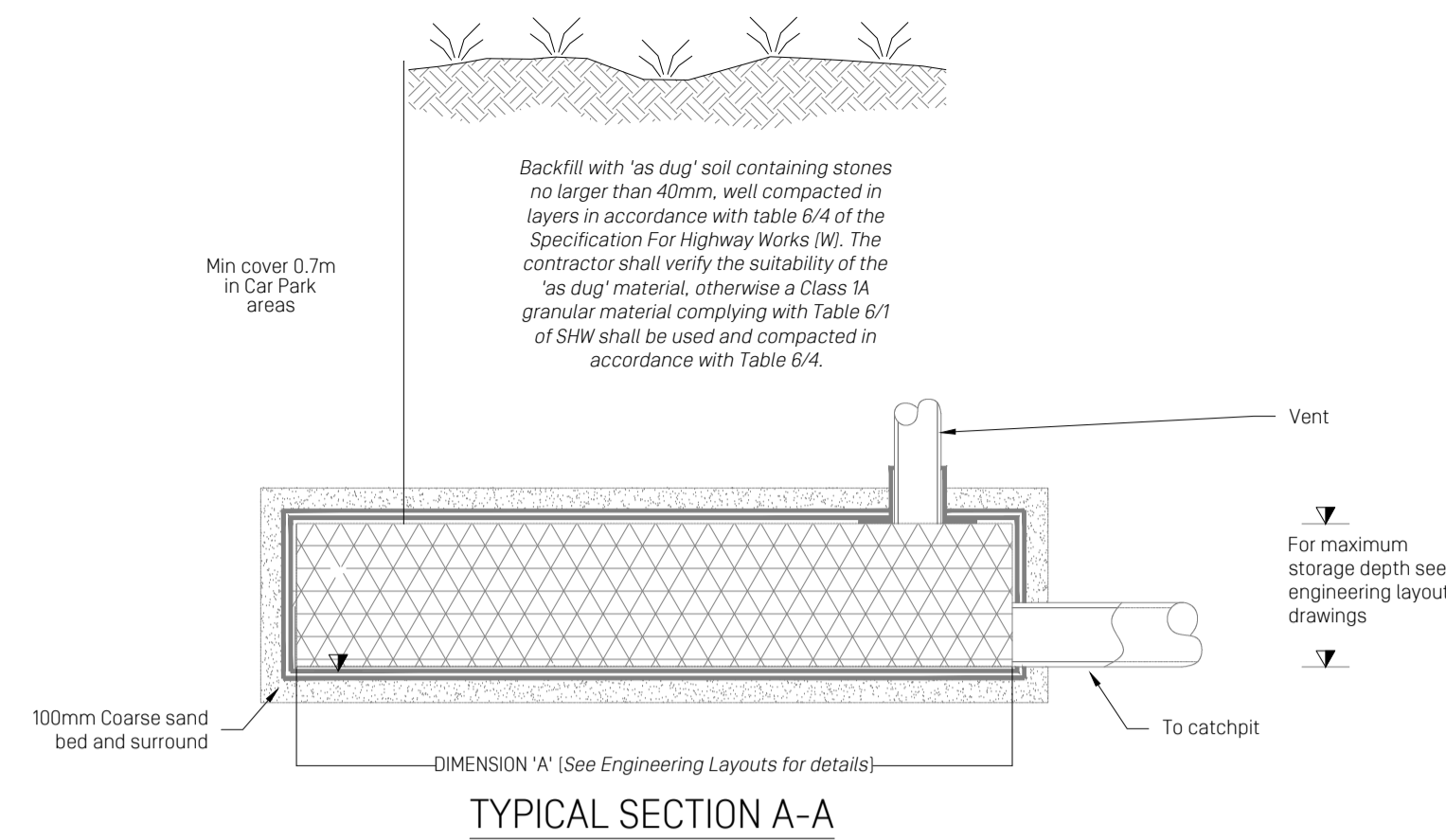


- (1) Access covers and frames shall be manufactured in ductile iron and have a clear opening of 600 x 600mm. Where located in carriageways and all other areas subject to vehicular traffic the access cover shall be class D400 to BS EN 124. In footways or verges where no vehicular traffic is anticipated the class shall be C250 to BS EN 124. Frames shall be 100mm deep and 150mm deep where located in block paved areas.
- (2) Cover frame bedded and haunched in 3:1 sand:cement mortar, 20mm thick.
- (3) Class B engineering brickwork laid in a 225mm header pattern, minimum of two courses and maximum of four.
- (4) Type B cover frame seating ring with 600 x 600mm eccentric access opening to BS 5911-3, bedded on mortar.
- (5) Reinforced precast concrete (sulphate resisting) heavy duty cover slab to BS 5911-3 with 750 x 600mm access opening, bedded on mortar.
- (6) 10mm Uncompressed thickness of 'Toketrig' or similar approved compressible sealant to all horizontal joints.
- (7) Precast concrete (sulphate resisting) chamber rings to BS 5911-3.
- (8) Mix 'ST4' sulphate resisting concrete surround min 150mm thick.
- (9) Where the depth of the manhole from finished cover level to invert exceeds 1m, galvanised step irons complying with BS EN 13101 shall be provided. They shall be built in at vertical intervals of 300mm with alternate steps offset 300mm horizontally.
- (10) Bottom chamber section to be 150mm above crown of highest pipe.
- (11) Mix 'ST4' concrete, mechanically vibrated.
- (12) 300mm Sump depth below lowest pipe invert.
- (13) All pipes entering or leaving manholes shall have a flexible joint max 500mm from the face of the concrete surround. The next pipe shall be a rocker pipe of length stated in Table 1.

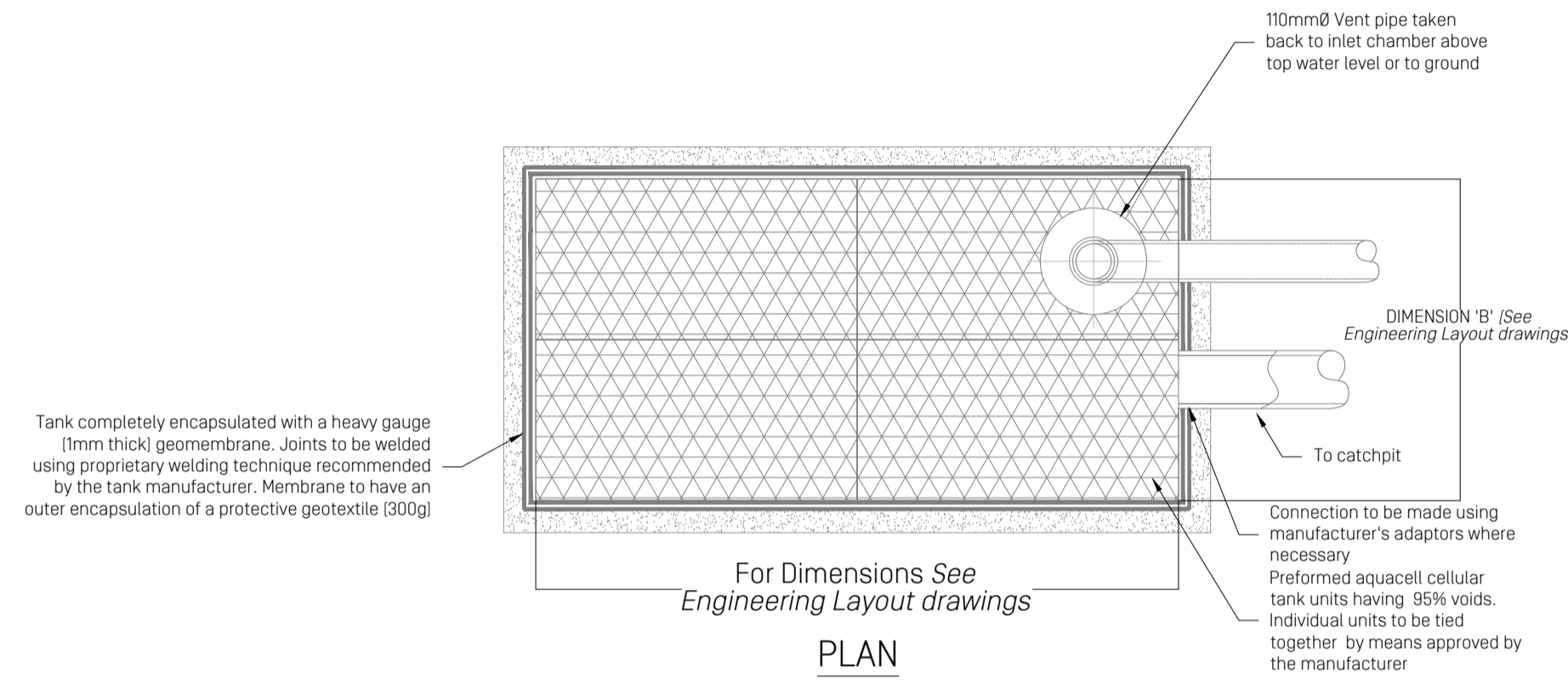
Pipe dia (mm)	Rocker pipe length (m)
150 - 600	600
600 - 750	1000
Over 750	1250

- (14) Joint filler board where adjoining trench construction is concrete bed.
- All concrete to bs 8500.

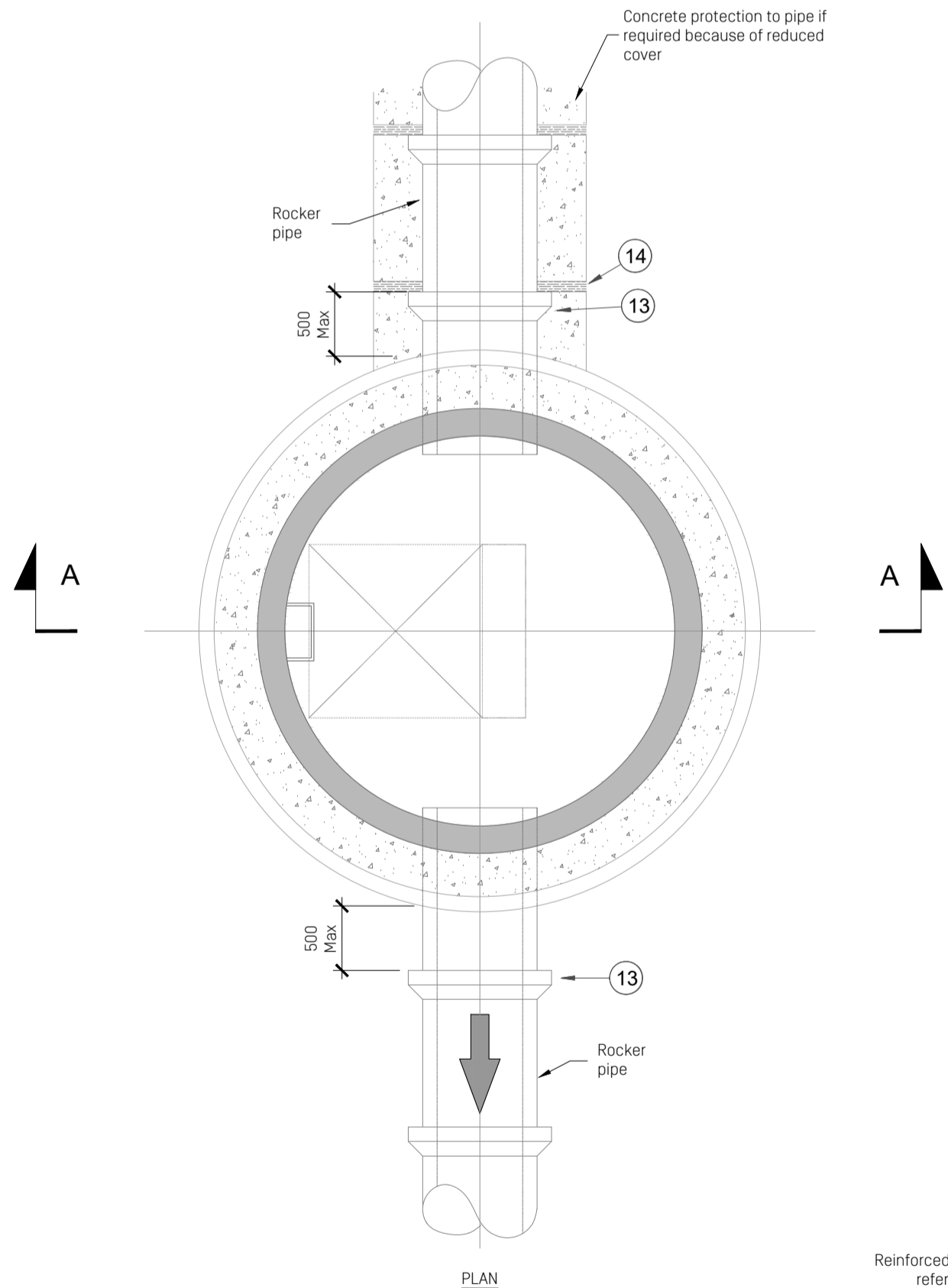
Diameter of largest pipe in chamber (mm)	Internal diameter of chamber section (mm)
Less than 375	1200
375 - 700	1500
750 - 900	1800



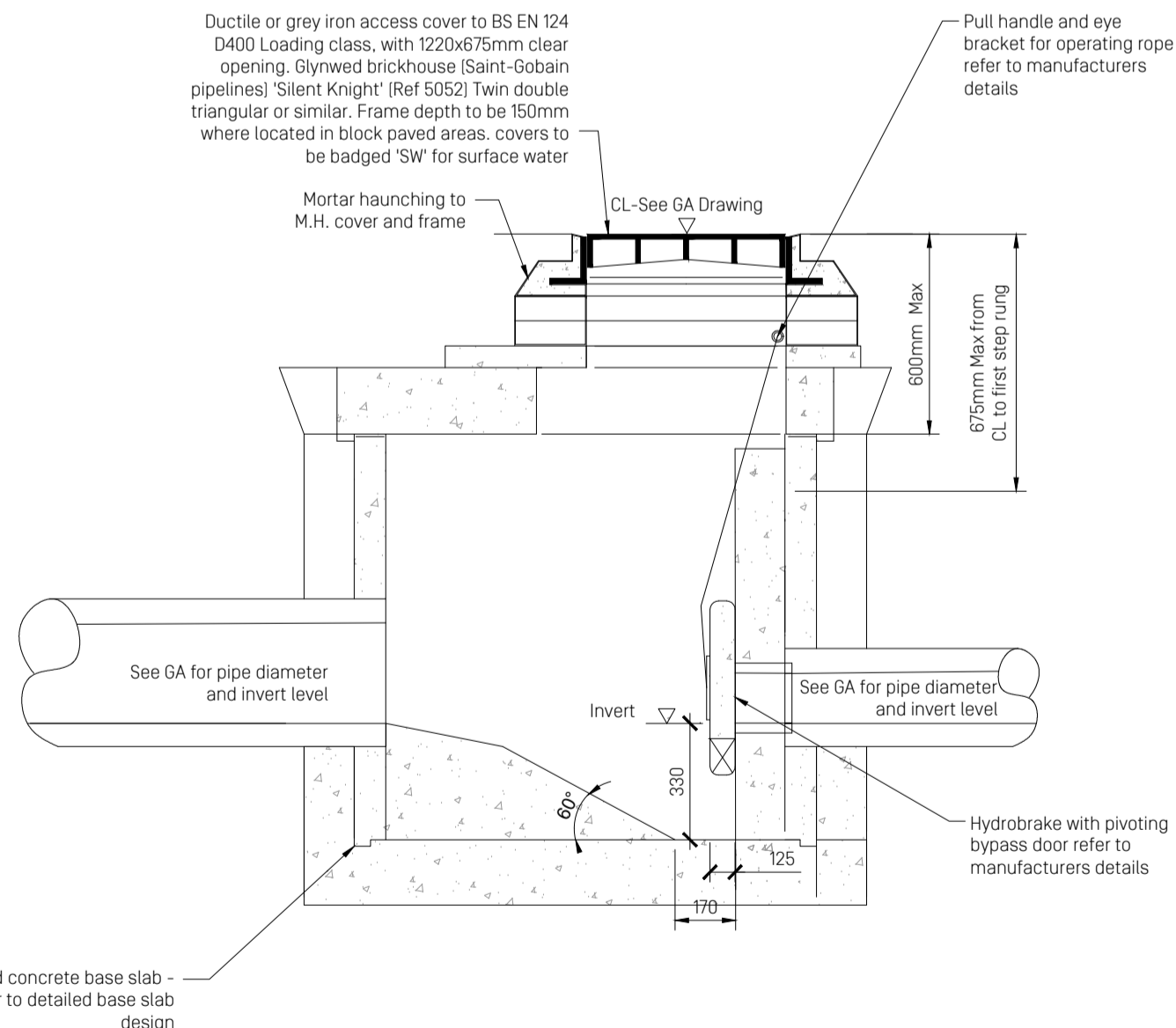
Designs based upon Wavin Aquacell 'Core R' crates with a minimum cover specified within the manufacturers technical details. Contractor to allow for ground reinforcement to a minimum cbr value of 5%.



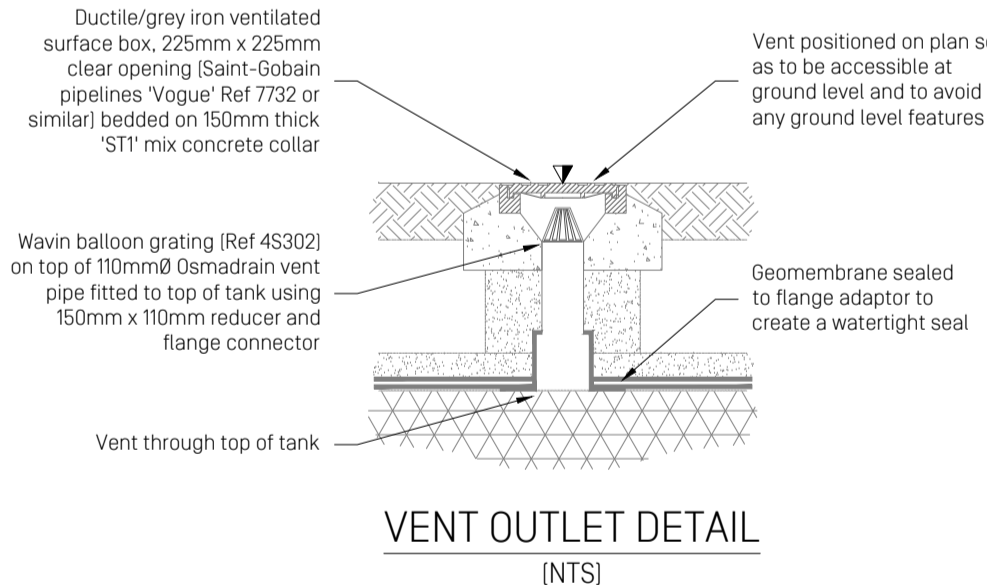
TYPICAL DETAIL FOR CELLULAR ATTENUATION TANK (not to scale)



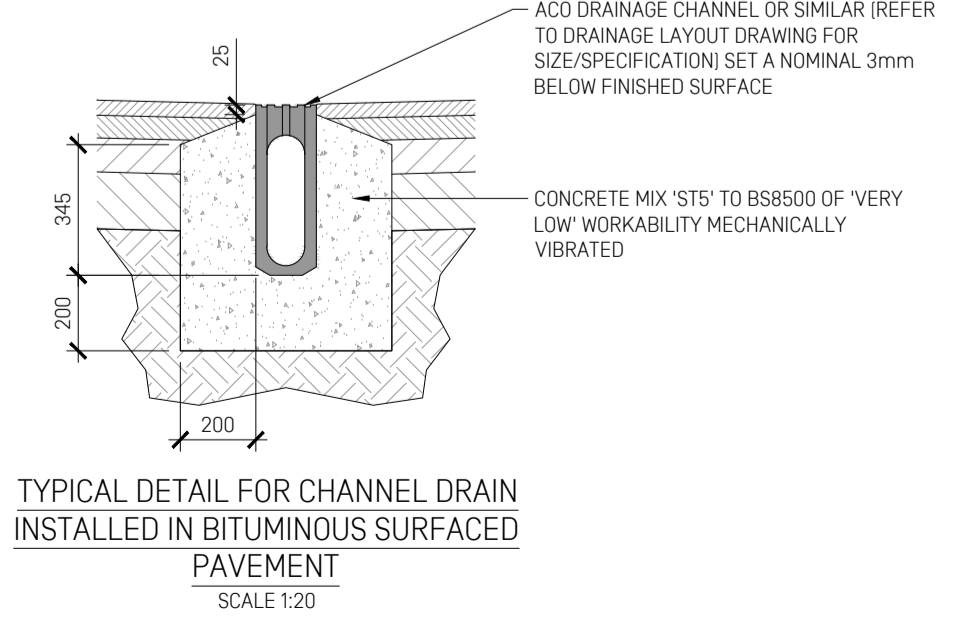
TYPICAL DETAIL FOR A PRECAST CONCRETE CATCHPIT CHAMBER (not to scale)



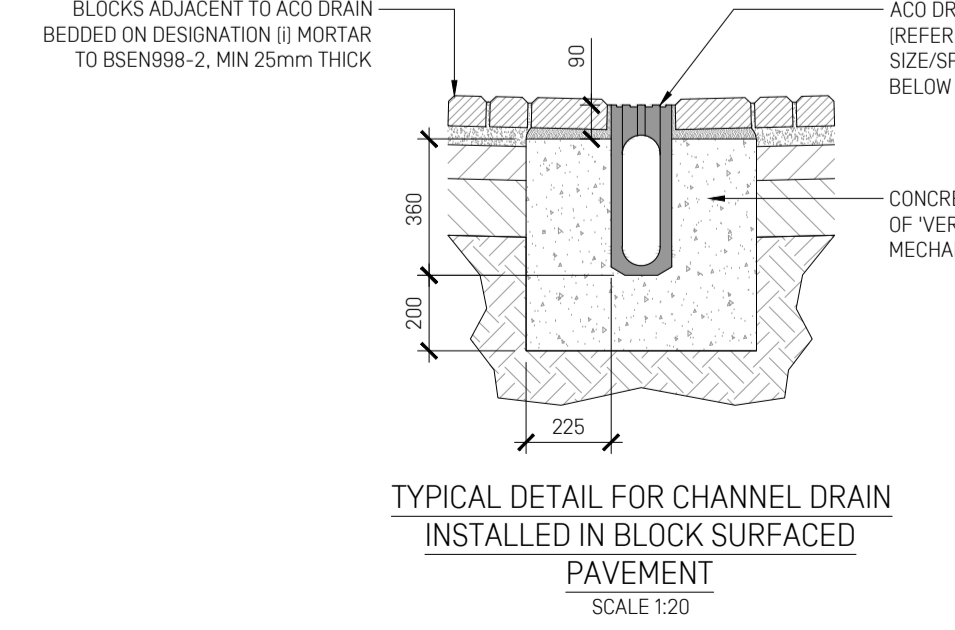
TYPICAL HYDROBRAKE NTS



VENT OUTLET DETAIL (NTS)



TYPICAL DETAIL FOR CHANNEL DRAIN INSTALLED IN BITUMINOUS SURFACED PAVEMENT SCALE 1:20



TYPICAL DETAIL FOR CHANNEL DRAIN INSTALLED IN BLOCK SURFACED PAVEMENT SCALE 1:20

PI Rev	Date	Description	Preliminary Issue	RB	JRS
				By	Check

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Client  
Cocksedge Building Constructors

Project  
Barrett's Lane, Needham Market  
Suffolk  
IP6 8DL

Title  
Private Construction Details  
Sheet 5

Scale @ A1  
AS SHOWN

Status  
Preliminary



Date	Job Number	By	Checked By
July 2023	0304	RB	JRS

Drawing No.	Revision
C434	P1

PRELIMINARY DRAWING:  
This drawing is for preliminary purposes only and must not be read as a construction issue. The design is not fixed and design changes are likely.