

DO NOT SCALE

FOR THE AVOIDANCE OF DOUBT, NO APPROVALS, REVIEWS, COMMENTS OR INDICATION OF SATISFACTION GIVEN BY ARC ENGINEERS IN TERMS OF SUBCONTRACT DRAWINGS, PRODUCTS OR PROPOSED MATERIALS SHALL REDUCE OR EXTINGUISH THE OBLIGATION OF THE SUB-CONTRACTOR OR SUPPLIER TO ADHERE TO THE SPECIFICATION, GENERAL ARRANGEMENT DRAWINGS, STATUTORY REQUIREMENTS AND GOOD WORKING PRACTICE. ARC ENGINEERS ACCEPT NO LIABILITY FOR THE SELECTION OF MATERIALS OR WORKMANSHIP IN THE EXECUTION OF THE WORKS.

#### GENERAL NOTES

- THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXISTS THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATIONS. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
- DRAWINGS NOT TO BE SCALED.
- ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER/ARCHITECT AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETE. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY. SUCH MATERIAL REMAINING THE PROPERTY OF THE CONTRACTOR UPON COMPLETION.
- ALL WORK TO COMPLY TO CURRENT BUILDING REGULATIONS AND TO BE IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS AND APPROPRIATE CODES OF PRACTICE.
- FOR FURTHER NOTES REFER TO PROJECT SPECIFICATIONS.

#### SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following risks and information.

Risks listed here are not exhaustive. Refer to Risk Assessment Register: 25047

Construction:



Demolition  
No Unusual hazards/risks

For information relating to Use, Cleaning and Maintenance see Health & Safety File

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement



INDICATES A RESIDUAL RISK  
REQUIRING A COMPULSORY  
ACTION



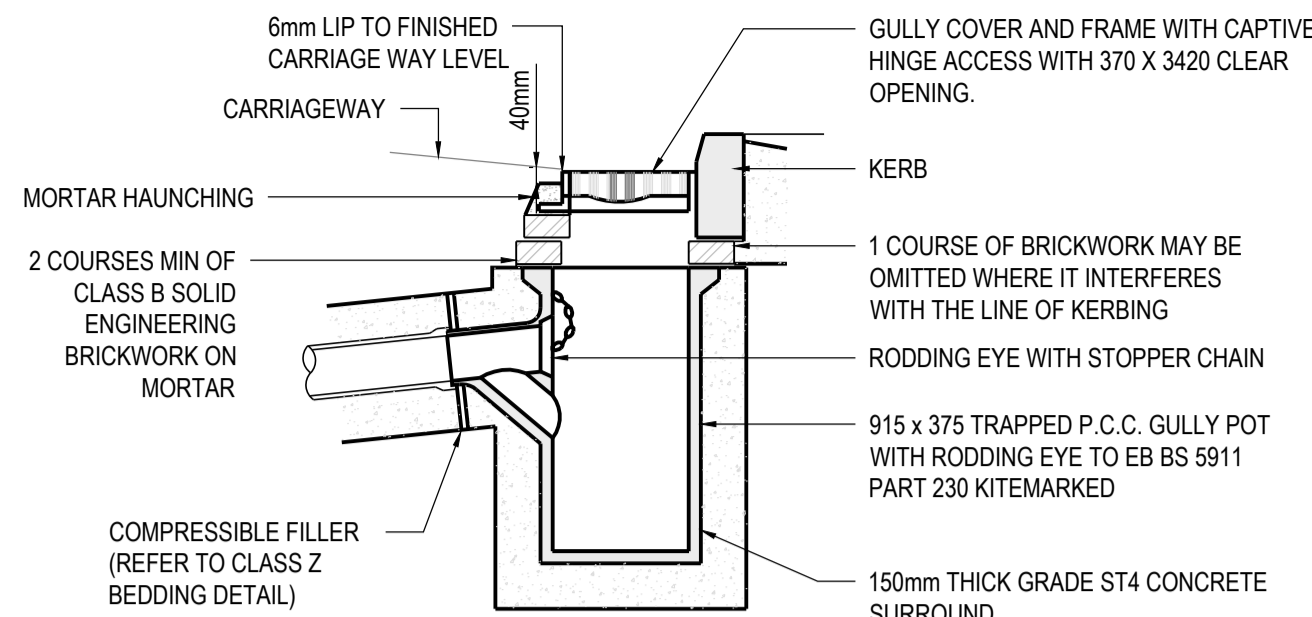
INDICATES A RESIDUAL  
RISK FOR INFORMATION



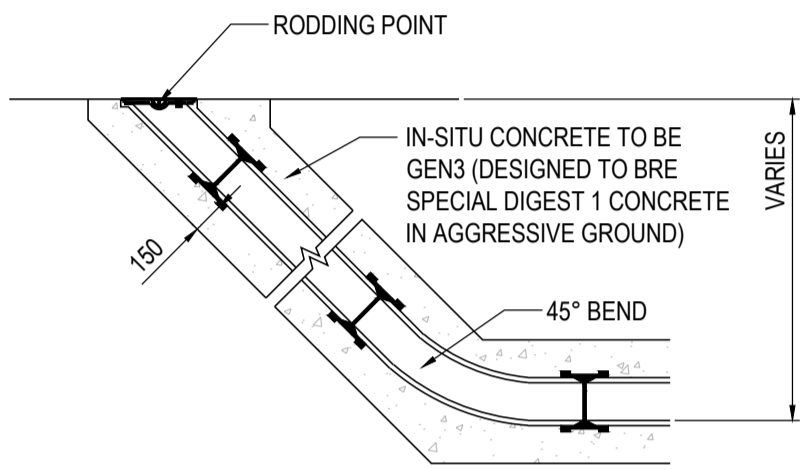
INDICATES A RESIDUAL RISK  
REQUIRING PROHIBITIVE ACTION



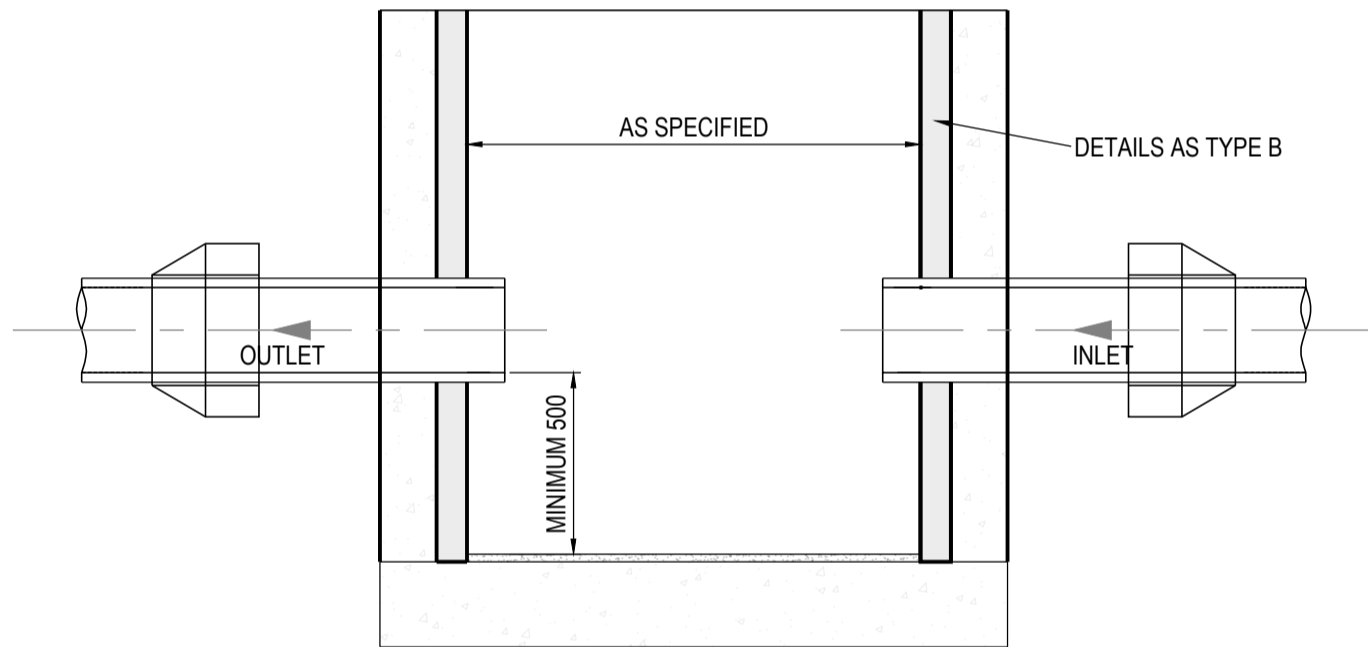
INDICATES A RESIDUAL  
RISK AS A WARNING



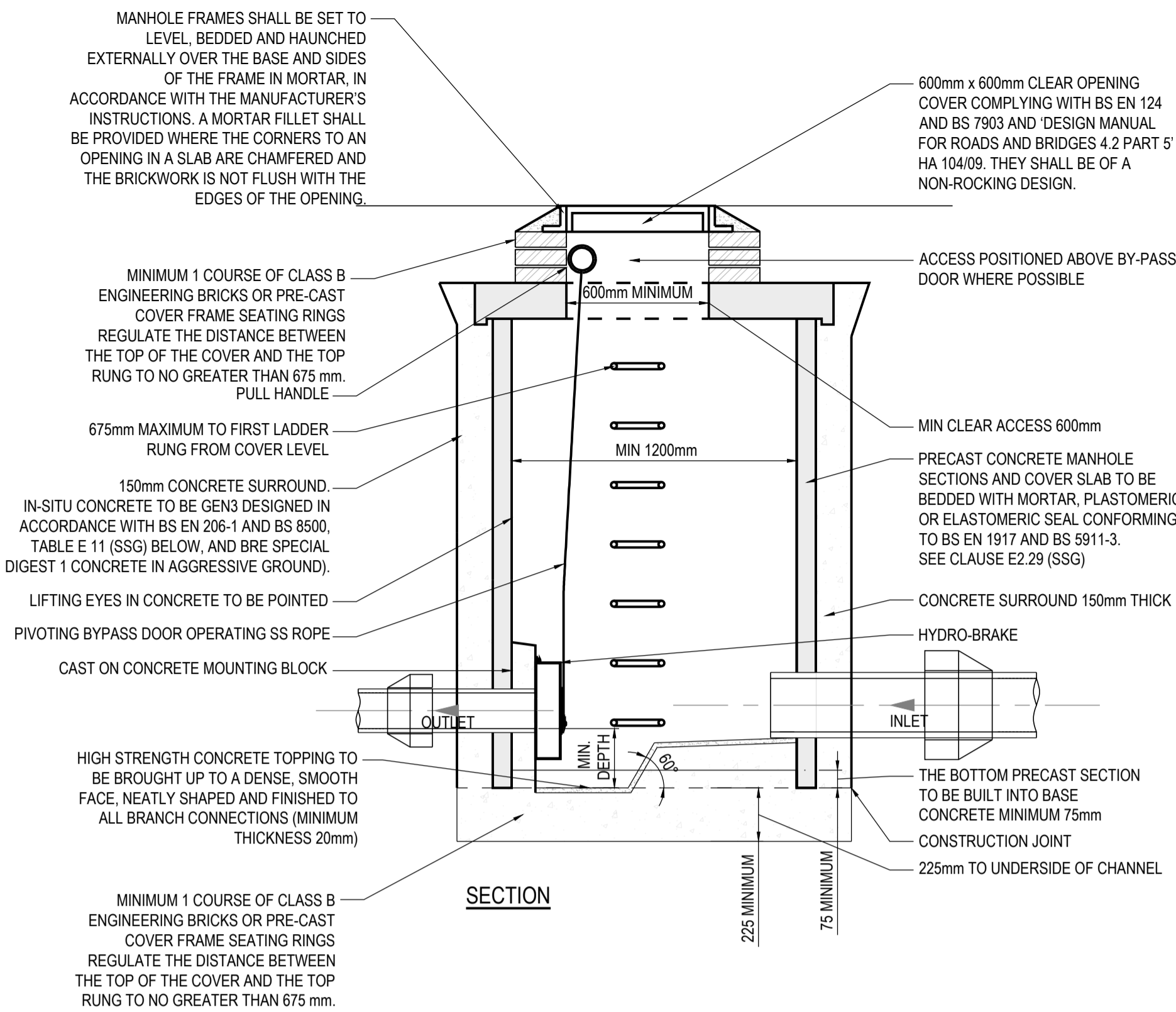
HIGHWAY DETAIL  
TYPICAL ROAD GULLY  
SCALE 1:20



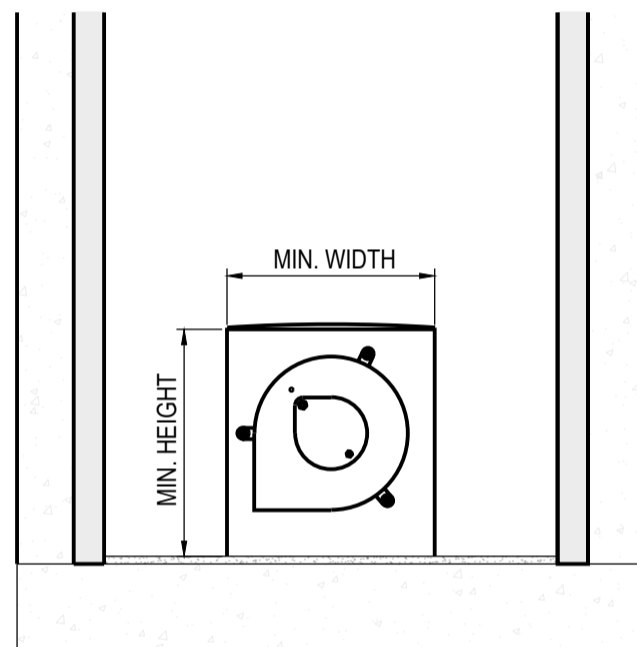
TYPICAL RODDING EYE  
DETAIL  
SCALE 1:20



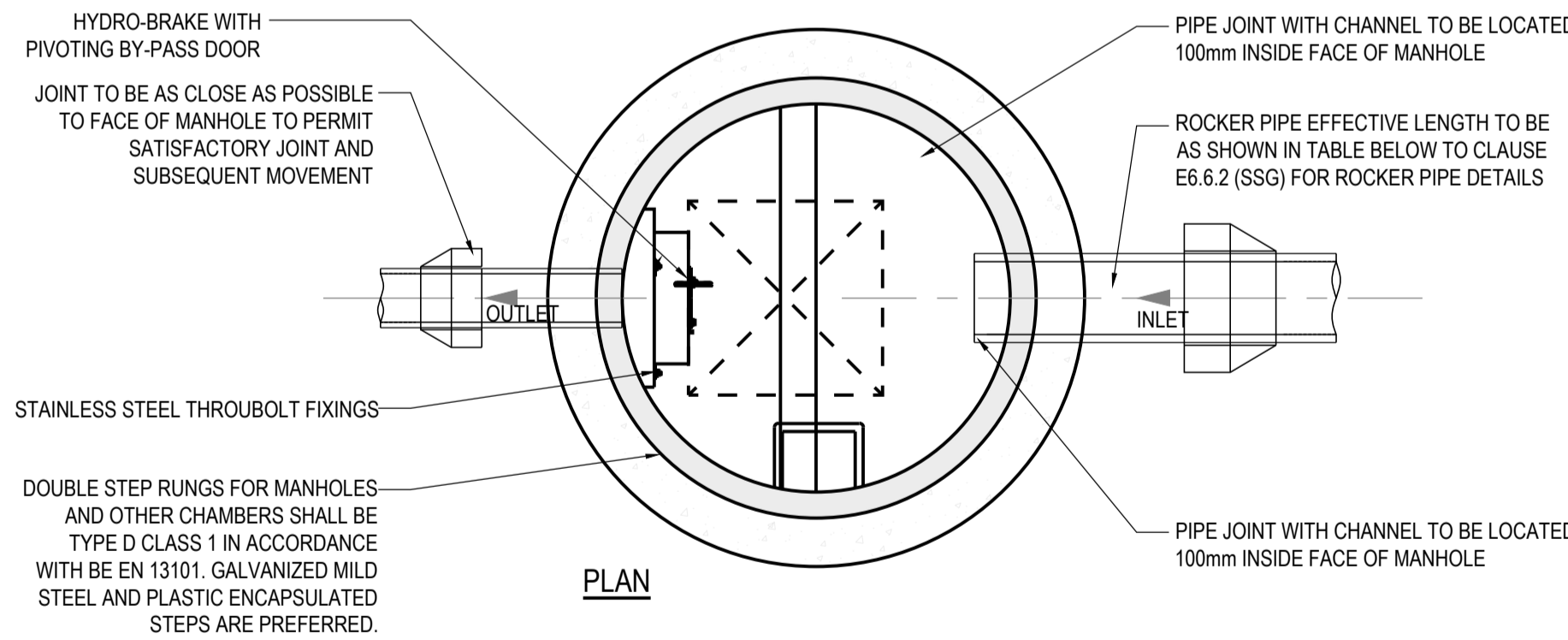
SUMP MANHOLE DETAIL  
SCALE 1:20



SECTION



ELEVATION ON MOUNTING BLOCK



PLAN

BBA APPROVED CTL-SHE-0025-4000-1800-400  
HYDRO-BRAKE OPTIMUM™

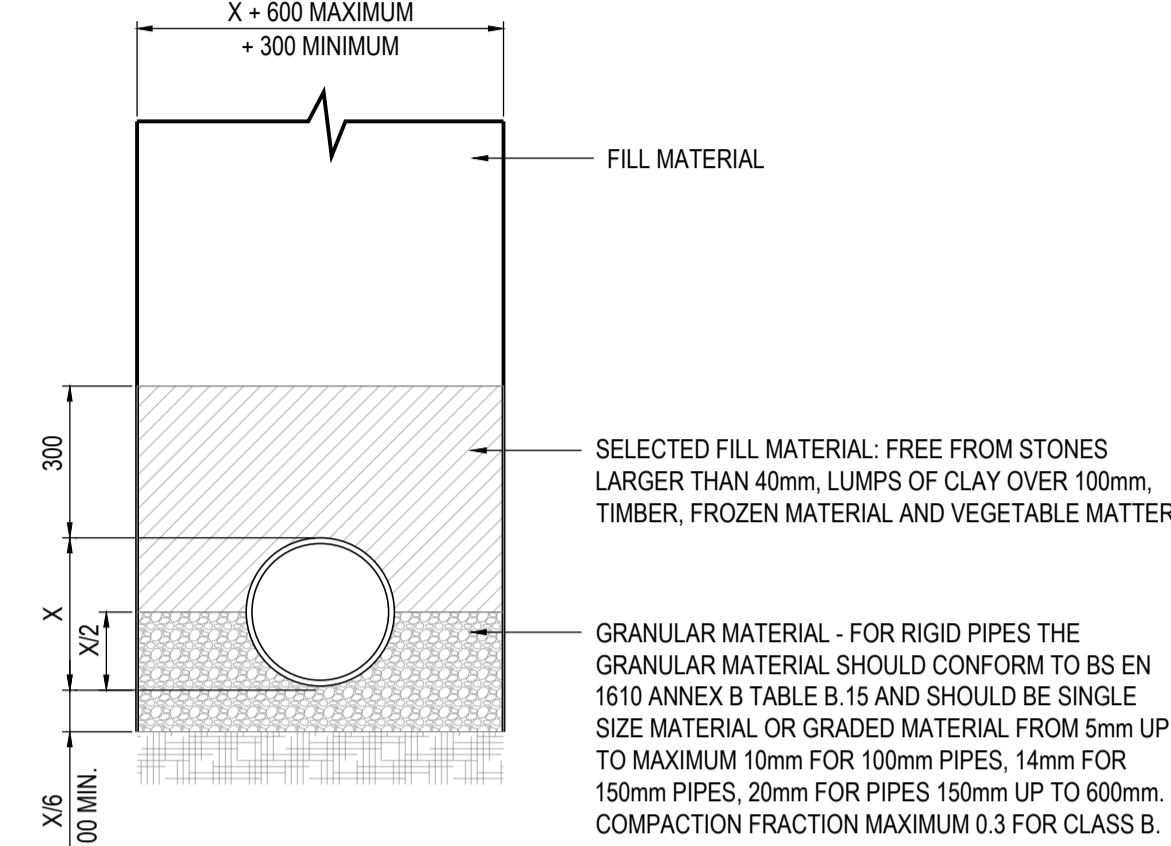
TECHNICAL SPECIFICATION CRITERIA		
BBA APPROVED	HEAD (m)	FLOW (L/s)
DESIGN POINT	1.800	0.4
FLUSH FLOW	-	-
KICK FLOW	-	-
OPTIMISATION	-	-
PHYSICAL SPECIFICATION		
MIN. BLOCK WIDTH	155	
MIN. BLOCK HEIGHT	30	
MIN. SUMP DEPTH	215	
MIN. OUTLET DIAMETER	75mm	

#### TYPICAL HYDRO-BRAKE DETAIL

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m

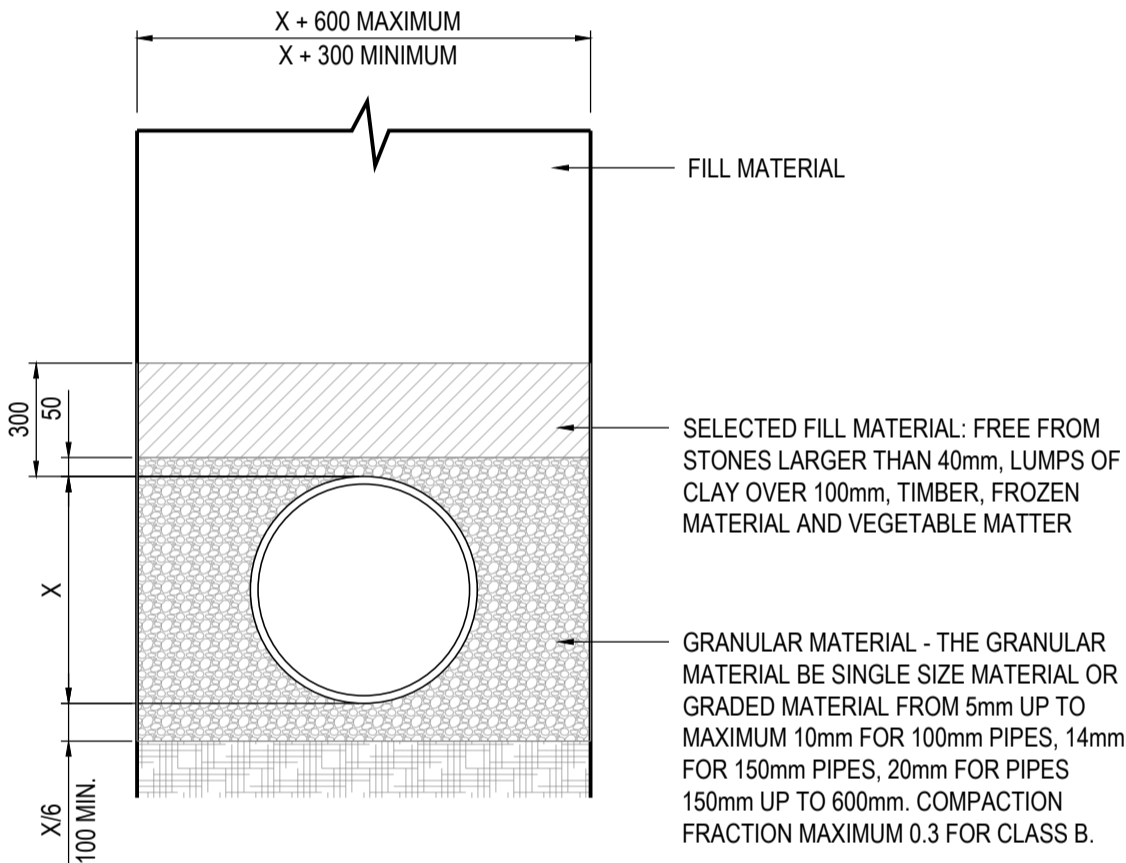
SCALE 1:20

- NOTES:
- ALL DIMENSIONS ARE IN mm.
  - DIMENSION X IS THE EXTERNAL Ø OF THE PIPE.
  - ALL PIPE SURROUND MATERIALS TO BE IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION, SEWER SECTOR GUIDANCE DOCUMENTS.
  - PIPE TO BE BEDDED TO MANUFACTURERS RECOMMENDATIONS



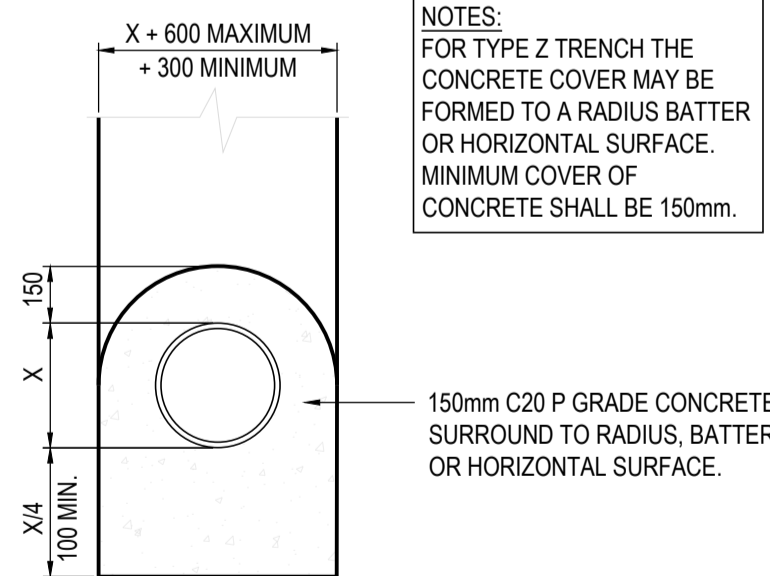
#### BED TYPE B(180°) BEDDING FACTOR 1.9

FOR RIGID PIPES -  
GENERALLY SUITABLE IN ALL SOIL CONDITIONS



#### BED TYPE S(360°) BEDDING FACTOR 2.2

FOR FLEXIBLE PIPES -  
GENERALLY SUITABLE IN ALL SOIL CONDITIONS



#### BED TYPE Z

CONCRETE SURROUND FOR SHALLOW PIPES

#### PIPE BEDDING DETAILS

SCALE 1:20

P3	CLIENT DETAILS AMENDED	SG	MG	AR	03.09.25
P2	CONSTRUCTION DETAILS UPDATED.	SG	MG	AR	29.07.25
P1	INITIAL ISSUE	SG	MG	AR	10.07.25
REV	DETAIL	BY	CHK	APP	DATE

ArcEngineers

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CLIENT:

PROPCO (WOKINGHAM) LTD

PROJECT:

EVENONS LANE RESIDENTIAL CARE  
HOME, WOKINGHAM

TITLE:

BELOW GROUND DRAINAGE DETAILS  
SHEET 2

DRAWING STATUS:

PRELIMINARY

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
SG	10.07.25	MG	10.07.25	AR	10.07.25

CONTRACT No:  
25047

SCALE @ A1:  
1:20

PROJECT No.	ORIGINATOR	ZONE	LEVEL	TYPE	DISCIPLINE	NUMBER	REVISION
25047	ARC	XX	XX	DR	C	5102	P3