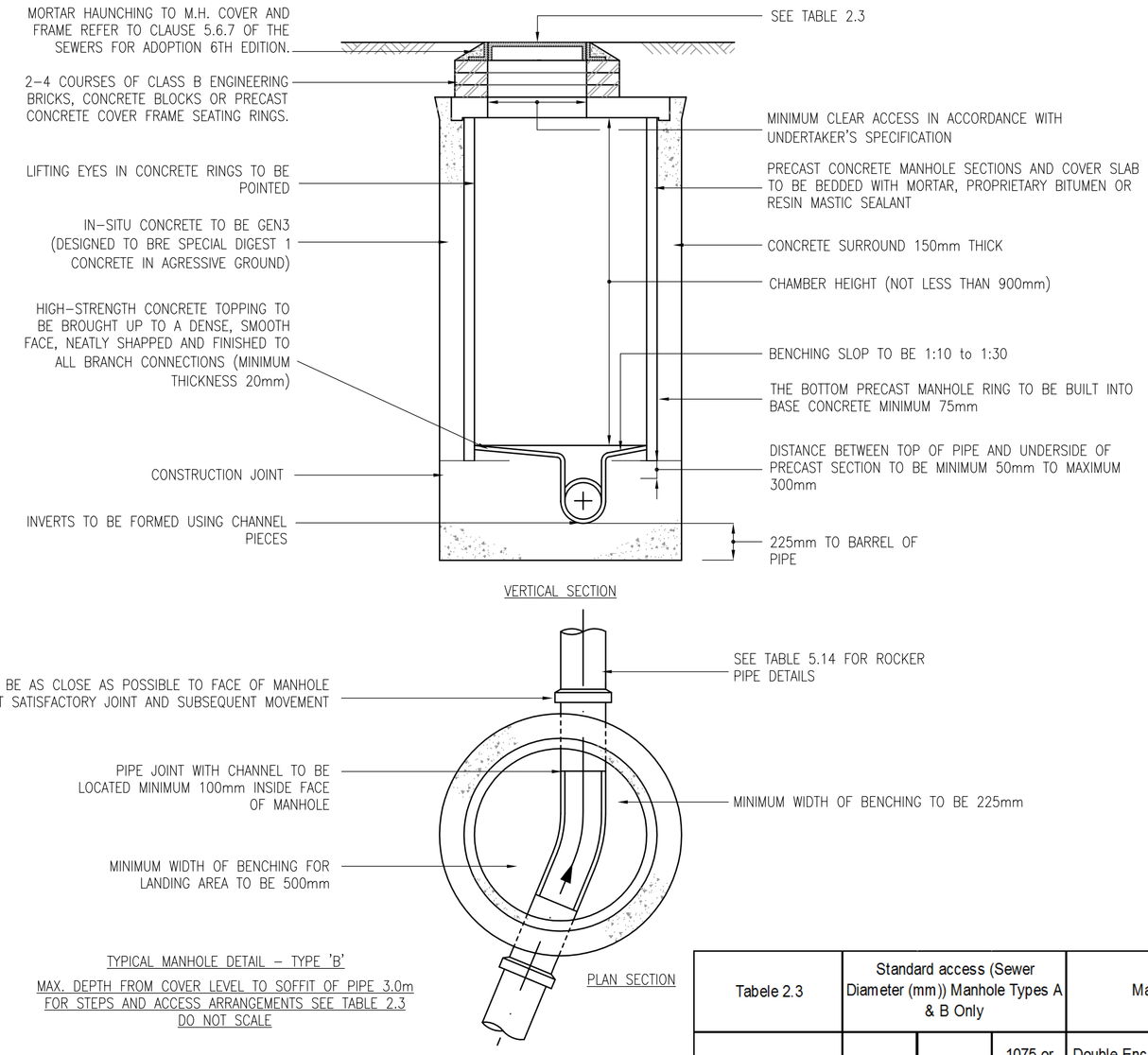


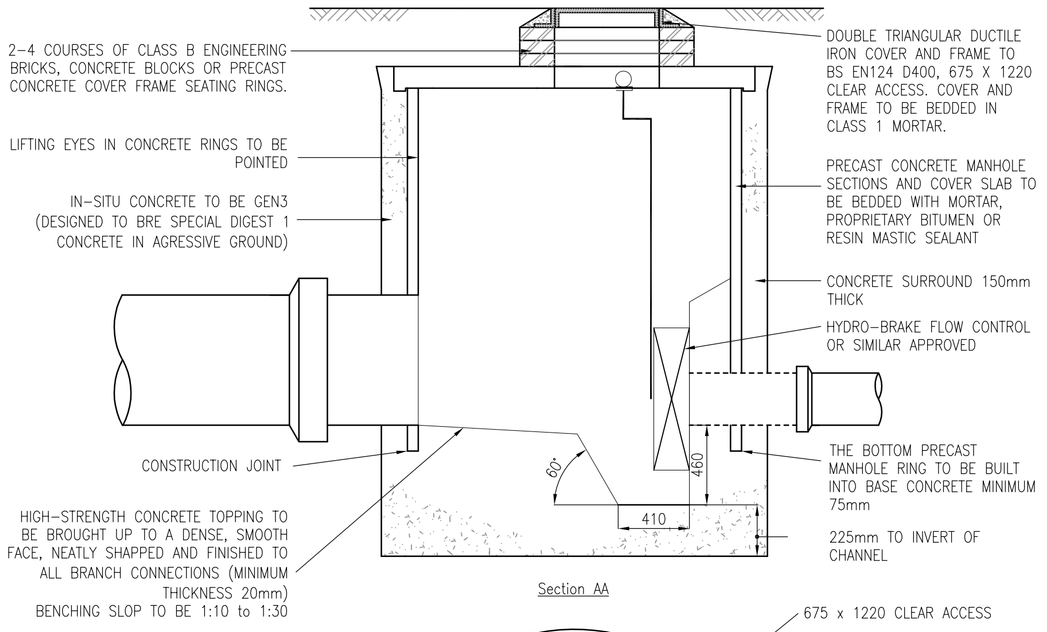
VERTICAL SECTION

TYPICAL MANHOLE DETAIL – TYPE 'B'

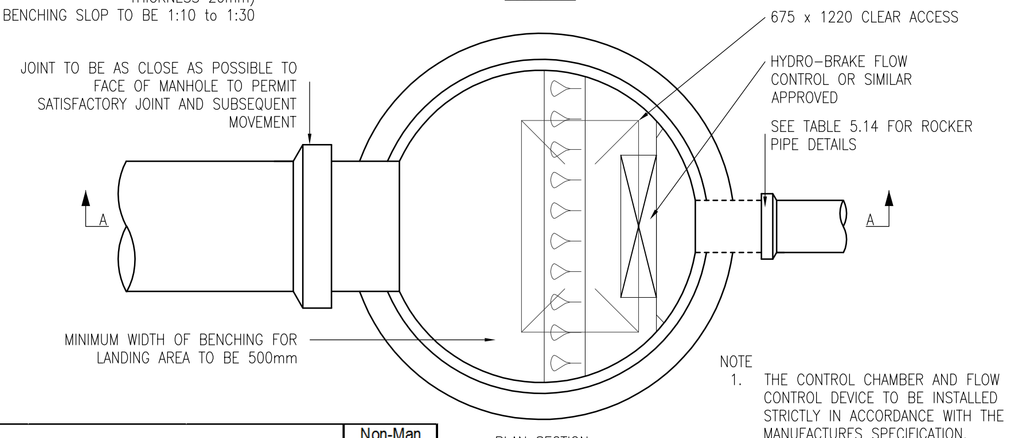
MAX. DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m FOR STEPS AND ACCESS ARRANGEMENTS SEE TABLE 2.3
DO NOT SCALE

PLAN SECTION

Tabele 2.3	Standard access (Sewer Diameter (mm)) Manhole Types A & B Only			Manhole Fitting Requirements All Manhole Types			Non-Man Entry Chambers Accepted
Sewerage Undertaker	150-874	875-1074	1075 or Greater	Double Encapsulated Step Rungs	Safety Chains (Materials)	Ladders (230mm Clearance Wall to Ladder)	For Sewer Manholes
THAMES WATER	**600X600**	**600X600**	**675X675**	**Less than 3m**	**900mm or Greater**	**Greater than 3m**	**No**



Section AA

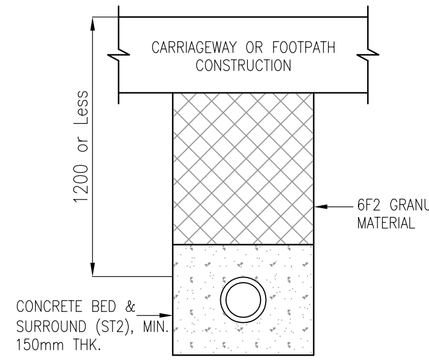


PLAN SECTION

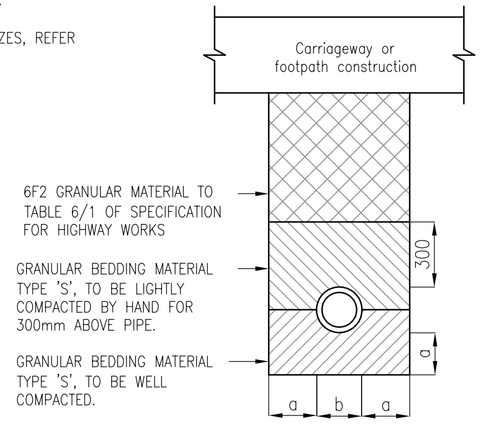
CONTROL CHAMBER

DO NOT SCALE

NOTE
1. THE CONTROL CHAMBER AND FLOW CONTROL DEVICE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATION.
2. FOR HYDROBRAKE SIZE AND INCOMING/OUTGOING PIPES SIZES, REFER TO LAYOUT.

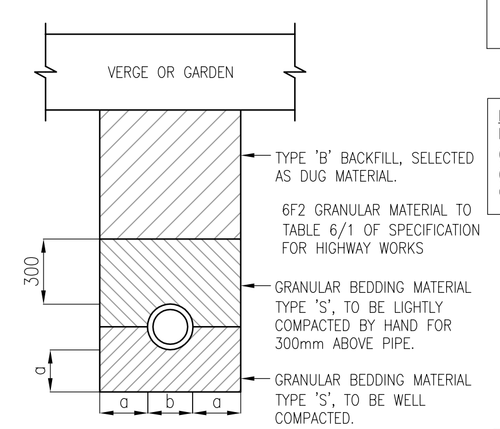


UNDER CARRIAGEWAY OR FOOTPATH < 1.2m DEEP (BEDDING CLASS 'Z')



UNDER CARRIAGEWAY OR FOOTPATH > 1.2m DEEP (BEDDING CLASS 'S')

NOTE: a=b/4, 150mm min GRANULAR BED & SURROUND



UNDER VERGE OR GARDEN (BEDDING CLASS 'S')

PIPE BEDDING MATERIAL DETAILS

1 MATERIAL DESIGNATED TYPE 'A' SHALL CONSIST OF ANGULAR GRAVEL OR CRUSHED ROCK GRADED IN ACCORDANCE WITH B.S. 882 : 1992, OR AIR COOLED BLAST FURNACE SLAG TO B.S. 1047 : 1983, OR SINTERED PULVERISED FUEL ASH TO B.S. 3797 : 1990, SELECTED ACCORDING TO PIPE SIZE AS FOLLOWS:–

NOMINAL SIZE OF PIPES (mm)	MAXIMUM PARTICLE SIZE (mm)	IMPORTED GRANULAR MATERIALS
100 – 125	10	10mm NOMINAL SINGLE–SIZE
150 – 200	15	10 or 14mm NOMINAL SINGLE–SIZE OR 14mm TO 5mm GRADED
225 – 300	20	10, 14 or 20mm NOMINAL SINGLE–SIZE OR 14mm TO 5mm GRADED OR 20mm TO 5mm GRADED
375 – 500	20	14 or 20mm NOMINAL SINGLE–SIZE or 14mm to 5mm GRADED OR 20mm to 5mm GRADED
OVER 500	40	14, 20 or 40mm SINGLE–SIZE OR 14mm to 5mm GRADED OR 20mm to 5mm GRADED OR 40mm to 5mm GRADED

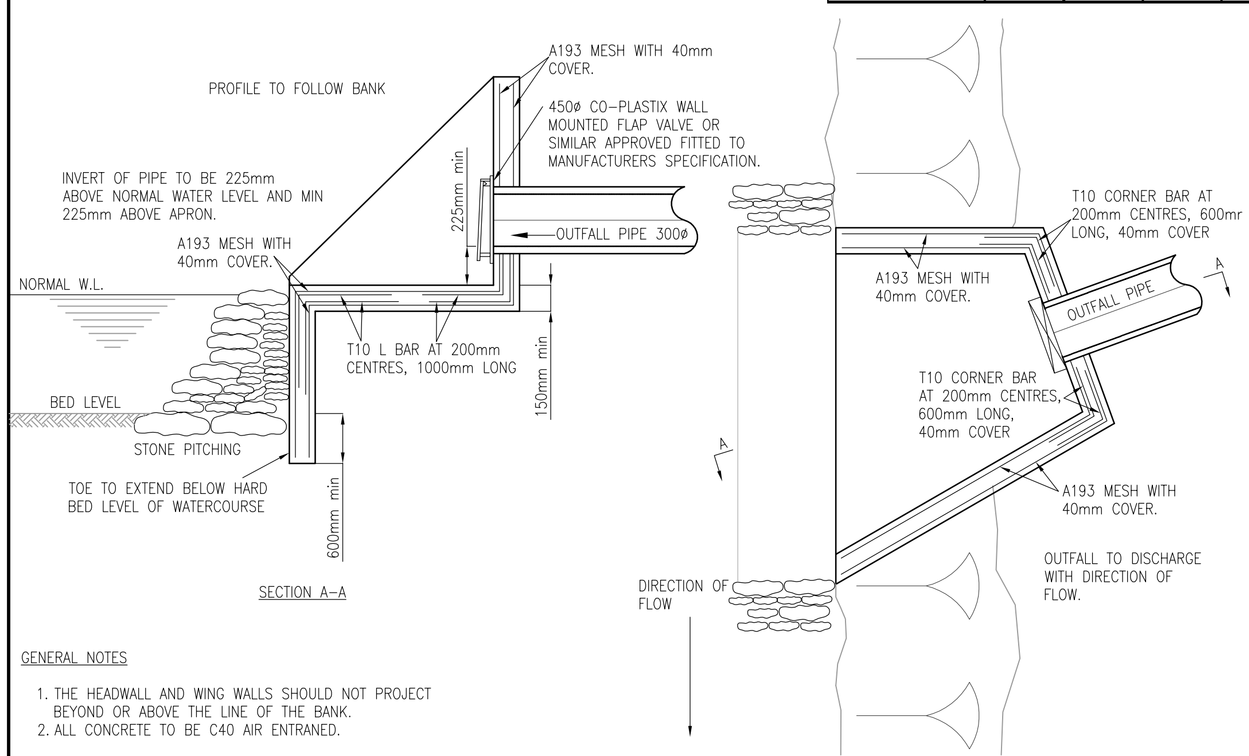
2 MATERIAL DESIGNATED TYPE 'B' USED UNDER GARDENS AND VERGES SHALL CONSIST OF UNIFORM READILY COMPACTABLE MATERIAL, FREE FROM TREE ROOTS, VEGETABLE MATTER, BUILDING RUBBISH AND FROZEN SOIL, AND EXCLUDING CLAY LUMPS RETAINED ON A 75mm SIEVE AND STONES LARGER THAN 37mm. BEDDING TO BE COMPACTED IN 225mm LAYERS.

3 MATERIAL DESIGNATED TYPE 'B' USED UNDER ROADS AND FOOTPATHS SHALL CONSIST OF GRANULAR MATERIAL AS USED FOR CARRIAGEWAY SUB–BASE CONSTRUCTION.

Table 5.14 – Rocker pipe length

Nominal diameter of pipe (mm)	Effective length (m)
150 to 600	0.6
675 to 750	1.0
Over 750	1.25

DEMARCATION CHAMBERS
DEMARCATION CHAMBERS TO BE AS:
(A) TYPE 'C' FOR DEPTHS UP TO 1.5m;
(B) TYPE 'B' FOR DEPTHS FROM 1.5m TO 3m BUT RING SIZE CAN BE 1050mmø.



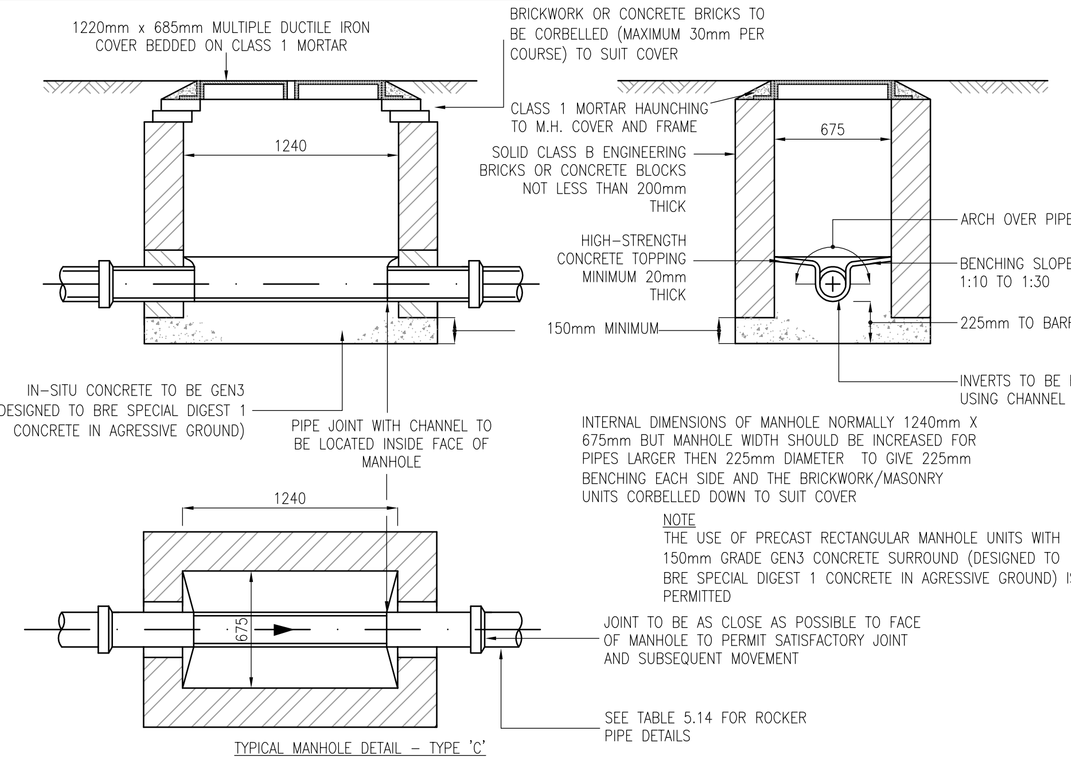
SECTION A–A

PLAN

HEADWALL
NOT TO SCALE

GENERAL NOTES

1. THE HEADWALL AND WING WALLS SHOULD NOT PROJECT BEYOND OR ABOVE THE LINE OF THE BANK.
2. ALL CONCRETE TO BE C40 AIR ENTRAINED.



INTERNAL DIMENSIONS OF MANHOLE NORMALLY 1240mm X 675mm BUT MANHOLE WIDTH SHOULD BE INCREASED FOR PIPES LARGER THEN 225mm DIAMETER TO GIVE 225mm BENCHING EACH SIDE AND THE BRICKWORK/MASONRY UNITS CORBELLED DOWN TO SUIT COVER

NOTE
THE USE OF PRECAST RECTANGULAR MANHOLE UNITS WITH 150mm GRADE GEN3 CONCRETE SURROUND (DESIGNED TO BRE SPECIAL DIGEST 1 CONCRETE IN AGRESSIVE GROUND) IS PERMITTED

TYPICAL MANHOLE DETAIL – TYPE 'C'

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 1.0m TO 1.5m
DO NOT SCALE

Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/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 DESIGN ASSESSMENT FORM NO.

CONSTRUCTION
NONE A COMPETENT CONTRACTOR WOULD NOT BE AWARE OF.

DEMOLITION
NONE.

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

SUBJECT TO TECHNICAL APPROVAL

Rev.	Date	Description	Drawn	Checked	Approved

Notes:
1. ALL ADOPTABLE DRAINAGE WORKS TO COMPLY WITH SEWERS FOR ADOPTION 6TH EDITION AND ANY ADDITIONAL THAMES WATER REQUIREMENTS.
2. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
3. ALL MANHOLE COVERS TO BE CLASS D400 TO BS EN 124.

Client: BANNER HOMES

Project Title: COTEFIELD FARM BODICOTE

Drawing Title: ADOPTABLE DRAINAGE CONSTRUCTION DETAILS

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Scale at A1:	Status:	
NTS	For Comment	
Drawn: DJ	Checked:	Approved:
Date: 14/11/13	Date:	Date:
Drawing No.: 99538/7001		Revision: –