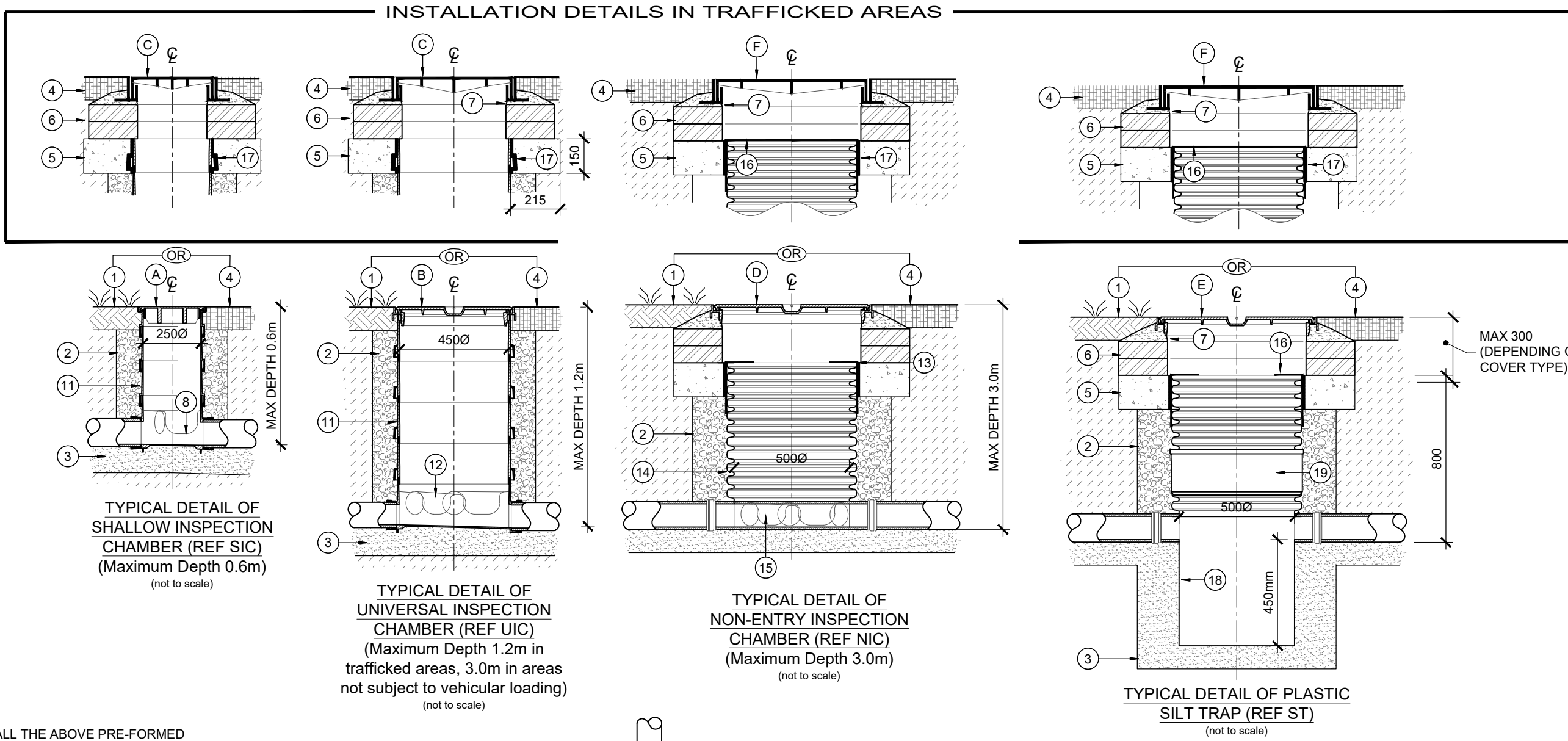
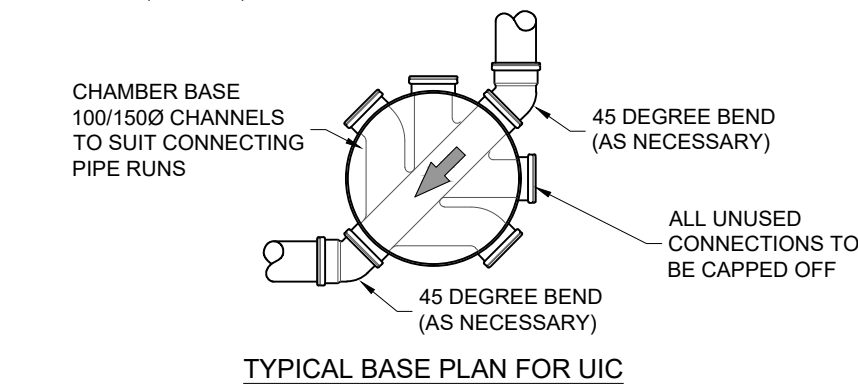


- (1) TOPSOIL TO LANDSCAPING SPECIFICATION.
- (2) MIN 150mm SIDE FILL OF 'SELECTED 'AS-DUG' MATERIAL WITH PARTICLE SIZES NO LARGER THAN 40mm OR GRANULAR MATERIAL TO PIPE BEDDING SPECIFICATION. WELL COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
- (3) GRANULAR PIPE BEDDING MATERIAL, MIN 100mm THICK
- (4) FINISHED PAVEMENT CONSTRUCTION.
- (5) 'GEN 3' OR 'ST4' CONCRETE COLLAR.
- (6) TWO COURSES OF ENGINEERING BRICKWORK.
- (7) FRAME BEDDED AND HAUNCHED IN CLASS 1 CEMENT MORTAR.
- (8) WAVIN OR EQUIVALENT SHALLOW INSPECTION CHAMBER. ONE PEICE 600mm DEEP WITH 3 NO. INCOMING CONNECTIONS FOR 1000 PIPEWORK.
- (9) 150mm DEEP MULTI-BASE IL CHAMBER SHAFT SECTIONS (NUMBER TO SUIT REQUIRED DEPTH).
- (10) WAVIN OR EQUIVALENT MULTI-BASE CHAMBER BASE. CONFIGURATION TO SUIT CONNECTIONS.
- (11) WAVIN OR EQUIVALENT PIE INSPECTION CHAMBER SHAFT 305mm DEEP (NUMBER TO SUIT DEPTH REQUIRED).
- (12) WAVIN OR EQUIVALENT UNIVERSAL INSPECTION CHAMBER BASE (CONFIGURATION TO SUIT CONNECTIONS).
- (13) WAVIN OR EQUIVALENT TELESCOPIC ADAPTOR FOR 500Ø NON MAN-ENTRY IL SHAFT WITH SEALING RING.
- (14) WAVIN OR EQUIVALENT NON MAN-ENTRY IL PIE INSPECTION CHAMBER SHAFT CUT TO REQUIRED LENGTH
- (15) WAVIN OR EQUIVALENT NON MAN-ENTRY INSPECTION CHAMBER BASE (CONFIGURATION TO SUIT CONNECTING PIPE WORK).
- (16) WAVIN OR EQUIVALENT NON MAN-ENTRY IL ACCESS CAP FOR 500Ø CHAMBER SHAFT.
- (17) GAP BETWEEN SLAB AND RESTRICTION CAP TO BE FILLED WITH 10mm COMPRESSIBLE FILLER BOARD.
- (18) WAVIN 'INTESIO' OR EQUIVALENT SILT TRAP WITH CONNECTION FOR 150Ø PIPEWORK. ADAPTORS REQUIRED FOR 100Ø OSMO OR OTHER CONNECTING PIPEWORK.
- (19) WHERE DEPTHS TO INVERT OF PIPE GREATER THAN 1200mm ARE REQUIRED, AN EXTENSION KIT CAN BE USED TO EXTEND DEPTH TO 2550mm (TO INVERT OF PIPE).



NOTE: FOR ALL THE ABOVE PRE-FORMED CHAMBERS THE MAIN CENTRAL CHANNEL MUST BE USED AND THIS CHANNEL SHALL ALSO BE USED FOR THE MAIN FLOWS (GENERALLY FROM WC's)



TYPICAL DETAILS FOR INSPECTION CHAMBERS
(not to scale)

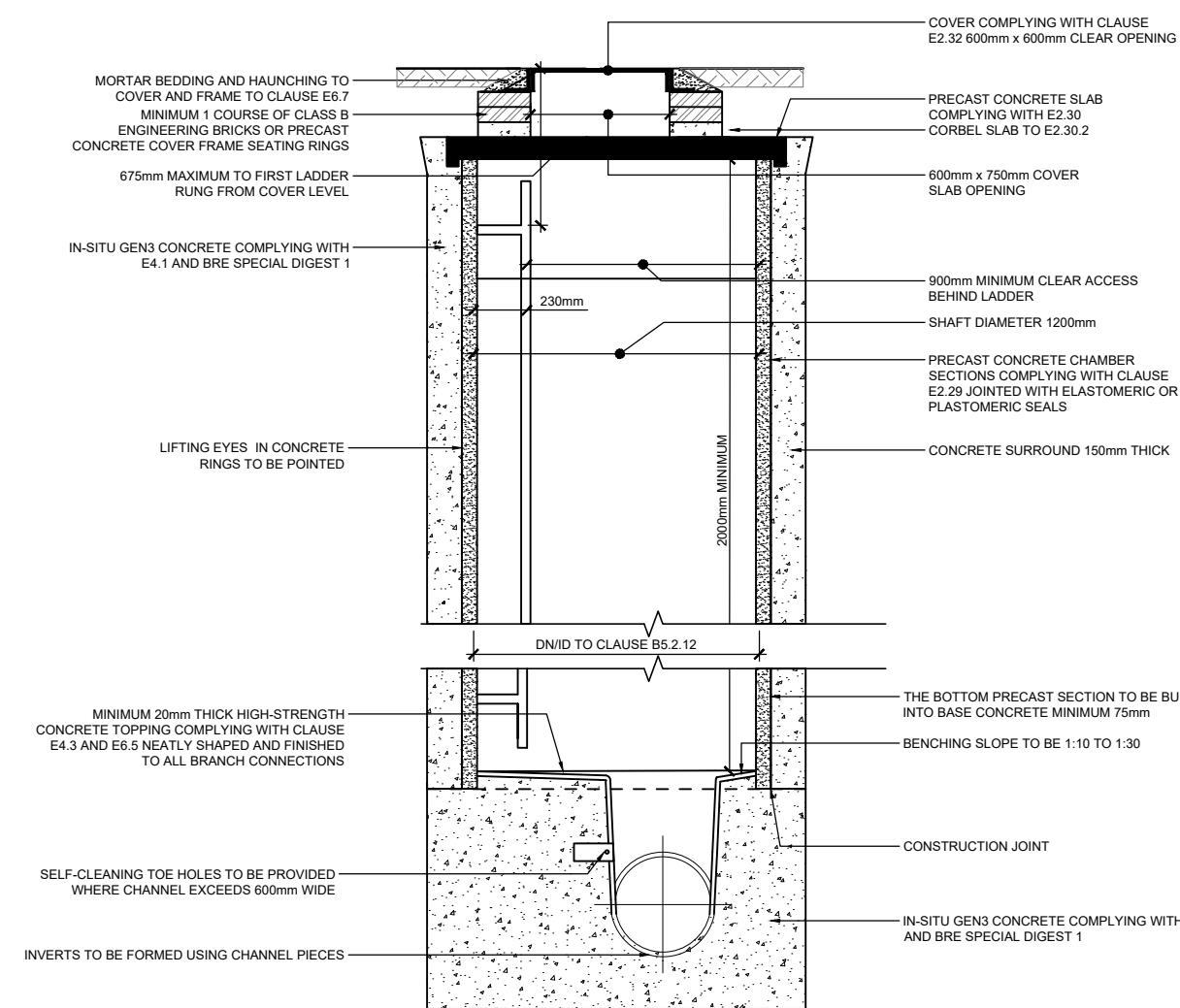


FIGURE B 7 TYPICAL MANHOLE DETAIL - TYPE A2
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3 M TO 6 M WITH LADDER
ALTERNATIVE RIGID MATERIAL CONSTRUCTION WITH CONCRETE SURROUND

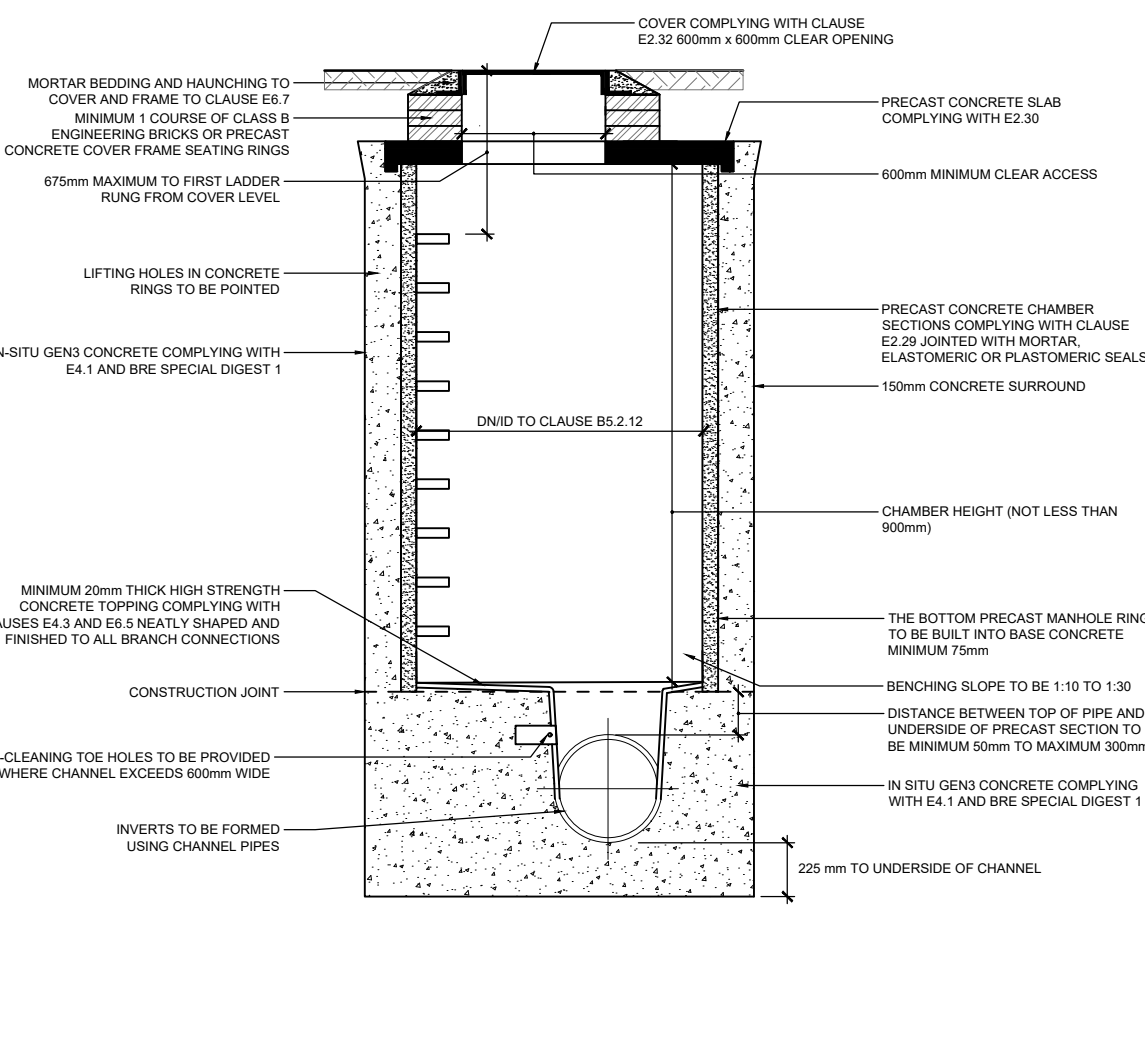


FIGURE B 10 TYPICAL MANHOLE DETAIL - TYPE B
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 1.5 M TO 3 M. ALTERNATIVE RIGID MATERIAL CONSTRUCTION WITH CONCRETE SURROUND

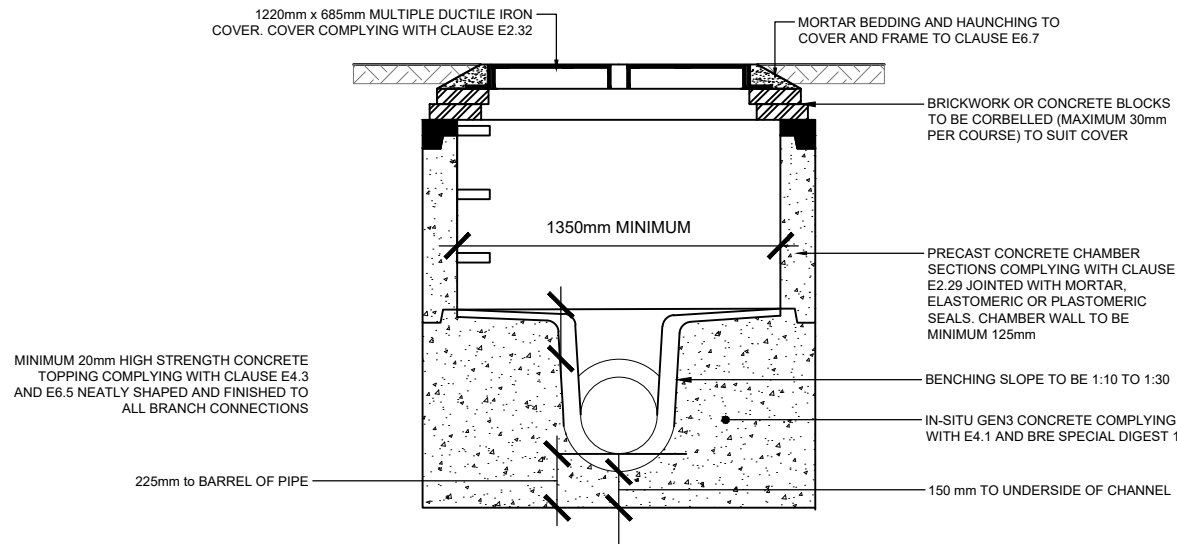
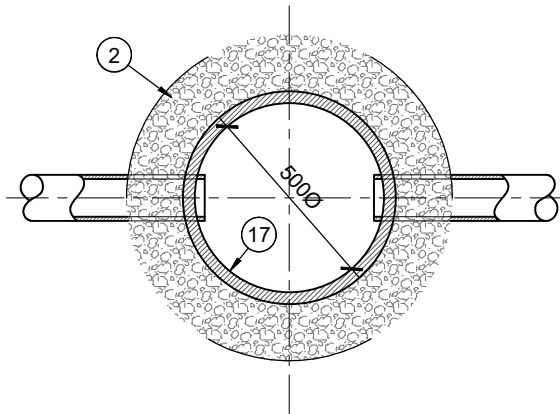
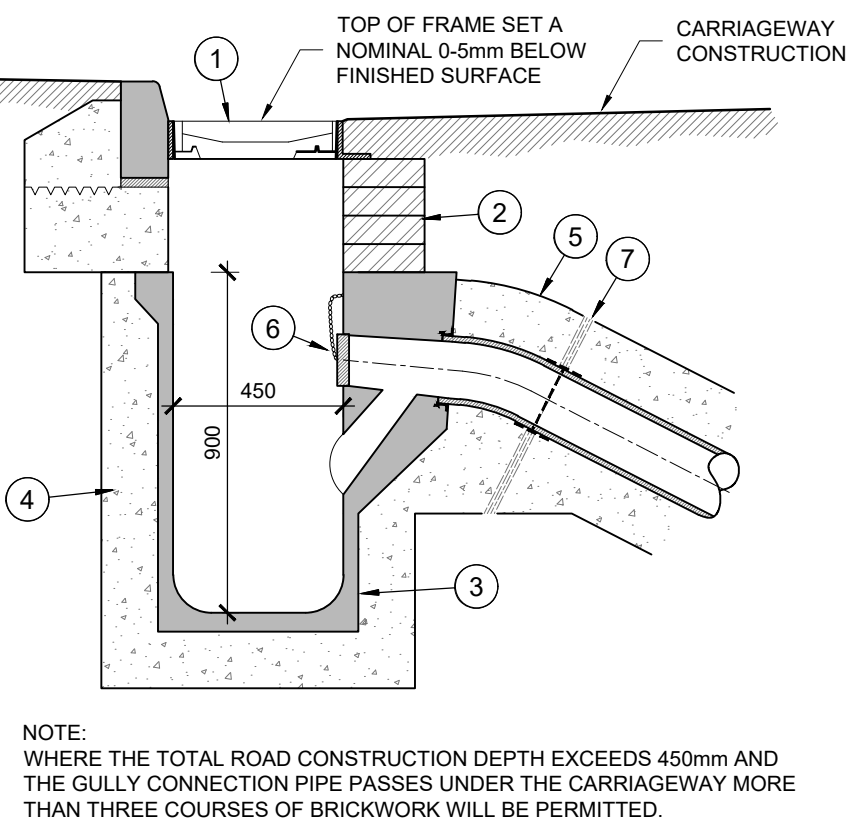


FIGURE B 15 TYPICAL MANHOLE DETAIL - TYPE C
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5 M. MAXIMUM PIPE SIZE 450mm DIAMETER. RIGID MATERIAL CONSTRUCTION

INSPECTION CHAMBER TYPES		
TYPE REF	DESCRIPTION	MAX DEPTH (m)
SIC	SHALLOW INSPECTION CHAMBER	0.6
	(8) WAVIN SHALLOW INSPECTION CHAMBER. ONE PEICE 600mm DEEP WITH 3 NO. INCOMING CONNECTIONS FOR 110mm Ø OSMO PIPEWORK.	
NIC	(20) WAVIN RANGE 600 INSPECTION CHAMBER BASE FOR USE WITH 220mmØ/ 300mmØ ULTRARIB WITH ADAPTORS. MAX 3NO. PIPE CONNECTIONS AND BASE TO SUIT CONFIGURATION.	3.0
	(13) WAVIN TELESCOPIC ADAPTOR FOR 500mm Ø NON MAN-ENTRY IL SHAFT WITH SEALING RING.	
	(16) WAVIN NON MAN-ENTRY IL ACCESS CAP FOR 500mm Ø CHAMBER SHAFT.	
	(17) GAP BETWEEN SLAB AND RESTRICTION CAP TO BE FILLED WITH 10mm COMPRESSIBLE FILLER BOARD.	
UIC	UNIVERSAL INSPECTION CHAMBER	1.2
	(12) WAVIN UNIVERSAL INSPECTION CHAMBER BASE (CONFIGURATION TO SUIT CONNECTIONS).	
ST	SILT TRAP CHAMBER	2.55
	(17) GAP BETWEEN SLAB AND RESTRICTION CAP TO BE FILLED WITH 10mm COMPRESSIBLE FILLER BOARD.	
	(18) WAVIN 'INTESIO' SILT TRAP WITH CONNECTION FOR 160mm OSMO PIPEWORK. ADAPTORS REQUIRED FOR 100mm OSMO OR OTHER CONNECTING PIPEWORK.	

INSPECTION CHAMBER ACCESS COVERS		
REF	BSEN124 LOADING	DESCRIPTION
A	<A15	ROUND OR SQUARE POLYPROPYLENE COVER AND FRAME TO SUIT 250mm SIC OR MULTI-BASE SIC. FOR USE IN AREAS NOT SUBJECT TO VEHICULAR OR PEDESTRIAN LOADING. WHERE RAKING OF A15 IS REQUIRED FOR PEDESTRIAN LOADING AREAS, THE COVER AND FRAME SHALL BE SUPPORTED BY A CONCRETE PLINTH IN ACCORDANCE WITH THE MANUFACTURERS DETAILS.
B	A15	POLYMER PEDESTRIAN DUTY ACCESS COVER AND FRAME TO BSEN124 A15 LOADING CLASS, TO SUIT UNIVERSAL INSPECTION CHAMBER. CIRCULAR OR SQUARE COVER MAY BE USED IN ALL BUT PAVED AREAS. IN PAVED AREAS (ie BLOCK, SLABS etc) USE SQUARE COVER. FOR CHAMBERS NOT SUBJECT TO VEHICULAR LOADING, GREATER THAN 1.2m DEEP, THE REDUCED ACCESS RING TO BE LEFT IN SITU.
C	B125	DUCTILE IRON MEDIUM DUTY COVER AND FRAME TO BSEN124 B125 LOADING CLASS, MIN 450x450mm CLEAR OPENING.
D	B125	DUCTILE IRON SQUARE COVER TO BSEN124 CLASS B125 LOADING, AS PART OF TELESCOPIC RAISING PIECE ASSEMBLY OF NON-ENTRY INSPECTION CHAMBER AND INCORPORATING 350mm RESTRICTED ACCESS.
E	A15	DUCTILE IRON PEDESTRIAN DUTY COVER AND FRAME TO BSEN124 A15 LOADING CLASS, 600x600mm CLEAR OPENING.
F	B125	DUCTILE IRON MEDIUM DUTY COVER AND FRAME TO BSEN124 B125 LOADING CLASS, 600x600mm CLEAR OPENING.
NOTE		
ACCESS COVERS TO BE SQUARE OR RECTANGULAR WHERE LOCATED IN PAVED AREAS.		



TYPICAL ROAD GULLY DETAIL
1:20

- (1) GULLY GRATING AND FRAME SHALL BE KITE-MARKED TO BSEN124 GRADE D400. ALL GRATINGS SHALL BE MANUFACTURED FROM CAST IRON OR DUCTILE IRON, CLEARLY MARKED WITH THE MAKER'S NAME AND THE GRADE OF THE THE GRATING, AND SHALL BE HINGED AND NON-REMOVABLE. GULLY FRAME SHALL BE SET ON A 10-20mm THICK CLASS 1 CEMENT MORTAR BED. GRATING AND FRAME TO BE SET 0-5mm BELOW THE CARRIAGEWAY SURFACE AND FLUSH WITH THE KERB FACE; ANY GAP SHALL BE FILLED WITH CLASS 1 MORTAR.
- (2) AT LEAST ONE AND NOT MORE THAN FIVE COURSES CLASS B ENGINEERING BRICKWORK TO BSEN771 & 772 LAID SQUARE. CHANGE IN PROFILE FROM SQUARE TO CIRCULAR TO BE SHAPED IN CLASS 1 MORTAR.
- (3) GULLY POT TO BE PRECAST CONCRETE TRAPPED TO BS5911-6(2004) HAVING INTERNAL DIMENSIONS 450mmØ AND 900mm MIN DEPTH. ALTERNATIVELY, BBA APPROVED uPVC PLASTIC GULLY POTS COMPLYING WITH BS1401 AND BSEN13598 MAY BE USED.
- (4) 150mm THICK CONCRETE SURROUND (MIX 'ST4' TO BS8500).
- (5) WHERE THE GULLY CONNECTION PIPE PASSES UNDER THE CARRIAGEWAY THE INVERT OF THE PIPE AT THE OUTLET SHALL BE SET AT LEAST 175mm BELOW FORMATION LEVEL. THE INVERT SHALL BE AT LEAST 315mm BELOW THE TOP OF THE SUB-BASE. A MIN 150mm THICK CONCRETE SURROUND (MIX 'ST2') SHALL BE CONTINUED TO THE CONNECTION PIPE UNTIL A DEPTH OF COVER OF 900mm TO THE CROWN OF THE PIPE HAS BEEN ACHIEVED.
- (6) PLASTIC STOPPER AND CHAIN.
- (7) JOINT FILLER BOARD TO MAINTAIN FLEXIBLE JOINTS THROUGH CONCRETE SURROUND.

! SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

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- DEEP EXCAVATIONS.
- BURIED SERVICES.

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- NO SIGNIFICANT RISKS.

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- EXISTING LIVE SERVICES.
- POSSIBLE ASBESTOS CONTAMINATION.

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P01	INITIAL ISSUE	17.10.25	BJL	PC
REV	DESCRIPTION	DATE	BY	AUTH

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CLIENT

HILL PARTNERSHIPS LTD

PROJECT
**GRAYS LANE
HITCHIN, HERTFORDSHIRE**
RLC PROJECT NO. 251029

TITLE
**EXTERNAL WORKS
CONSTRUCTION DETAILS
SHEET 1**

DRAWN	AUTHORISED	DATE	SCALE AT A1
BJL	PC	OCT' 25	REFER TO DRAWING

SUITABILITY
S2 - INFORMATION

PROJECT NO.	DRAWING FIELDS	DRAWING NO.	REV
LGH	ROS-GRA-XX-D-C	01400	P01

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