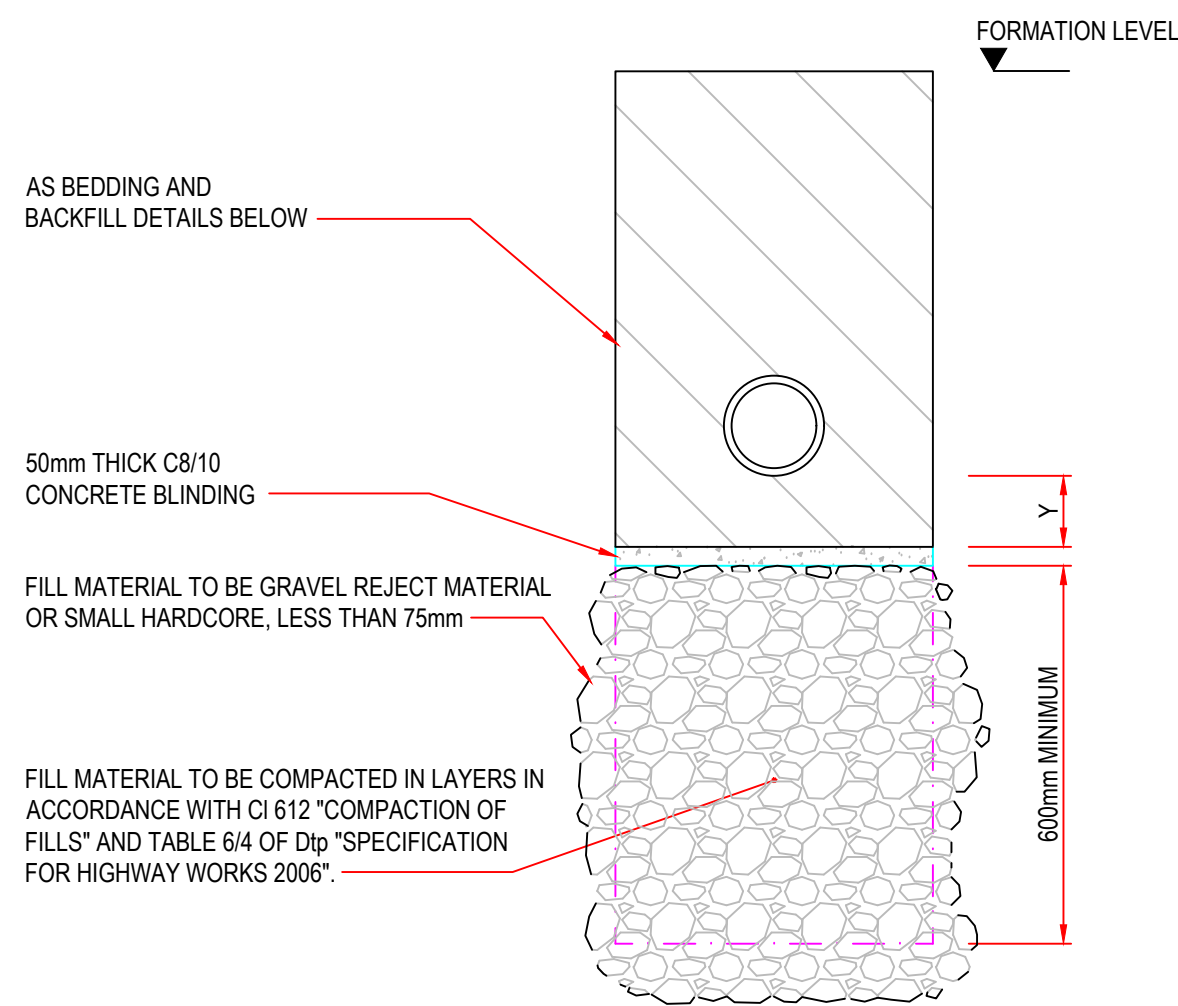




SOFT GROUND DETAIL (SEE NOTE G6)
(APPLICABLE TO PIPE TRENCHES AND DRAINAGE STRUCTURES)

NOMINAL PIPE DIA (mm)	MAXIMUM WIDTH (mm)
100	600
150	700
225	800
300	900
375	1050
450	1150
525	1200
600	1350
675	1450

MAXIMUM TRENCH WIDTHS
(EXCEEDANCE COULD
COMPROMISE STRUCTURAL
DESIGN OF PIPELINE)

DEPTH TO TAKE ACCOUNT OF
ROAD CONSTRUCTION AND
SERVICE CROSSINGS

200mm C16/20
CONCRETE SLAB A252
MESH
REINFORCEMENT

OVERHANG TO BEAR ON
UNDISTURBED GROUND.
DISTANCE TO BE DETERMINED
ON SITE, 150 MIN.

CONCRETE SLAB PROTECTION

(SEE NOTE S5)

600mm x 600mm CLEAR OPENING COVER
COMPLYING WITH BS EN 124 AND BS 7903. SEE
CLAUSE E2.32 IN SFA 8TH EDITION.

MORTAR BEDDING AND HANCHING TO
COVER AND FRAME TO CLAUSE E6.7 IN SFA
8TH EDITION

MINIMUM 2 COURSES OF CLASS B ENGINEERING
BRICKS OR PRECAST CONCRETE COVER
SEATING RINGS

675mm MAXIMUM TO FIRST STEP RUNG FROM
COVER LEVEL

HEAVY DUTY P.C.C. REINFORCED COVER SLAB
WITH MINIMUM 600mm x 675mm ACCESS

PCC SHAFT SECTIONS, LIFTING EYS IN
CONCRETE RINGS TO BE POINTED

PRECAST CONCRETE MANHOLE SECTIONS
AND COVER SLABS TO BE BEDDED WITH
MORTAR, PLASTOMERIC OR ELASTOMERIC
SEAL CONFORMING TO BS EN 1917 AND BS EN
5911-3. SEE CLAUSE E2.29 IN SFA 8TH EDITION.

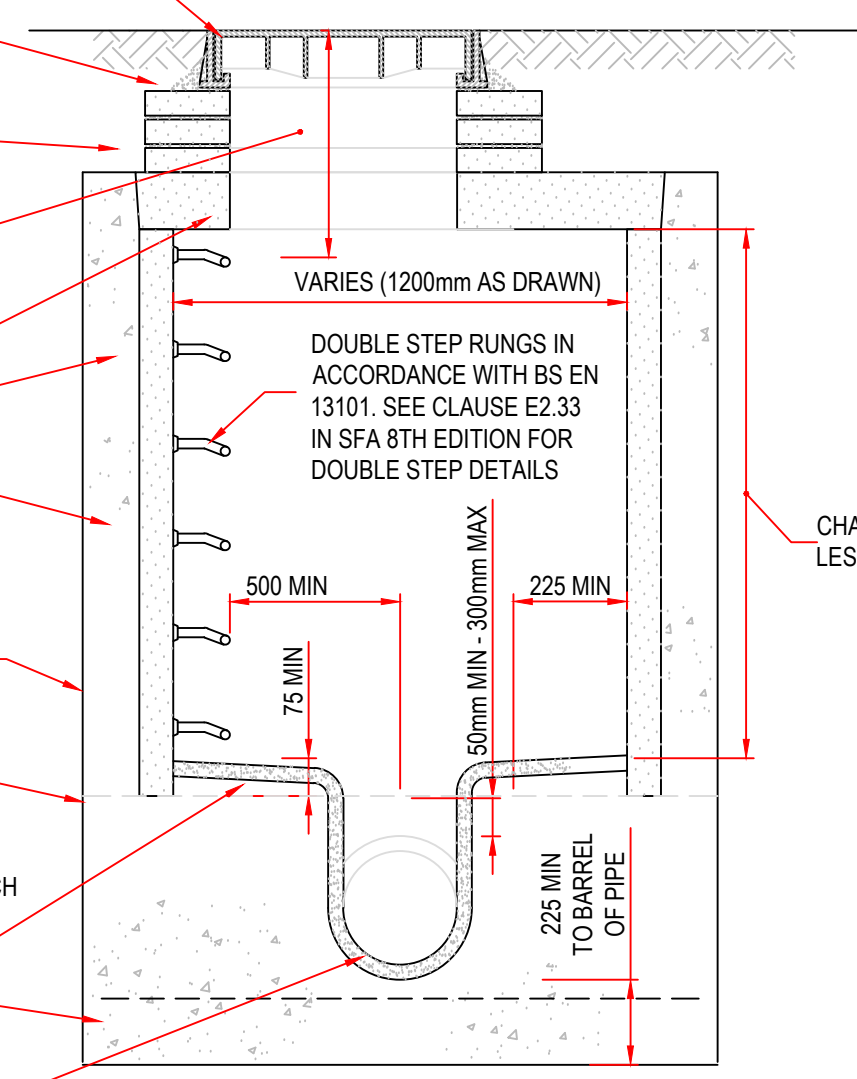
CONSTRUCTION JOINT

BENCHING SLOPE TO BE 1 IN 10 MAX TO 1 IN 30 MIN.
FINISH TO BE BROUGHT UP TO A DENSE, SMOOTH
FACE, NEATLY SHAPED AND FINISHED TO ALL BRANCH
CONNECTIONS HIGH STRENGTH OR GRANOLITHIC
CONCRETE (MINIMUM THICKNESS 20mm)

C16/20 CONCRETE WITH A393 MESH IN TOP
FACE ON 75 THICK GEN1 BLINDING

INVERTS TO BE FORMED USING CHANNEL PIPES
WHENEVER POSSIBLE
SELF CELANSING TOE HOLES TO BE PROVIDED IN
BENCHING FOR PIPES GREATER THAN 600mm
DIAMETER IN ORDER TO PROVIDE ACCESS TO INVERT

SEE EXTG GROUND CONDITIONS NOTES



TYPICAL MANHOLE DETAIL - TYPE B
MAXIMUM DEPTH TO SOFFIT OF PIPE 3.0m

ALTERNATIVE CONSTRUCTION DETAIL FOR TYPE 2 MANHOLE IS PERMITTED.
REFER TO FIGURE B.13 ON PAGE 26 OF SFA 7TH EDITION FOR DETAILS OF PRE-FAB, MONOLYTHIC BASE
ALTERNATIVE DETAIL ONLY PERMITTED FOR CHAMBERS UP TO 1800mm

FLEXIBLE JOINT.
JOINT TO BE AS CLOSE AS POSSIBLE TO
FACE OF MANHOLE TO PERMIT
SATISFACTORY JOINT AND
SUBSEQUENT MOVEMENT

SEE FIGURE B.13 AND CLAUSE E6.6.2
FOR ROCKER PIPE DETAILS

REFER TO SEWERS FOR ADOPTION
FOR SAFETY MEASURES ON
OUTGOING PIPE

PIPE TO BE LOCATED
MIN 100mm INSIDE
FACE OF CHAMBER

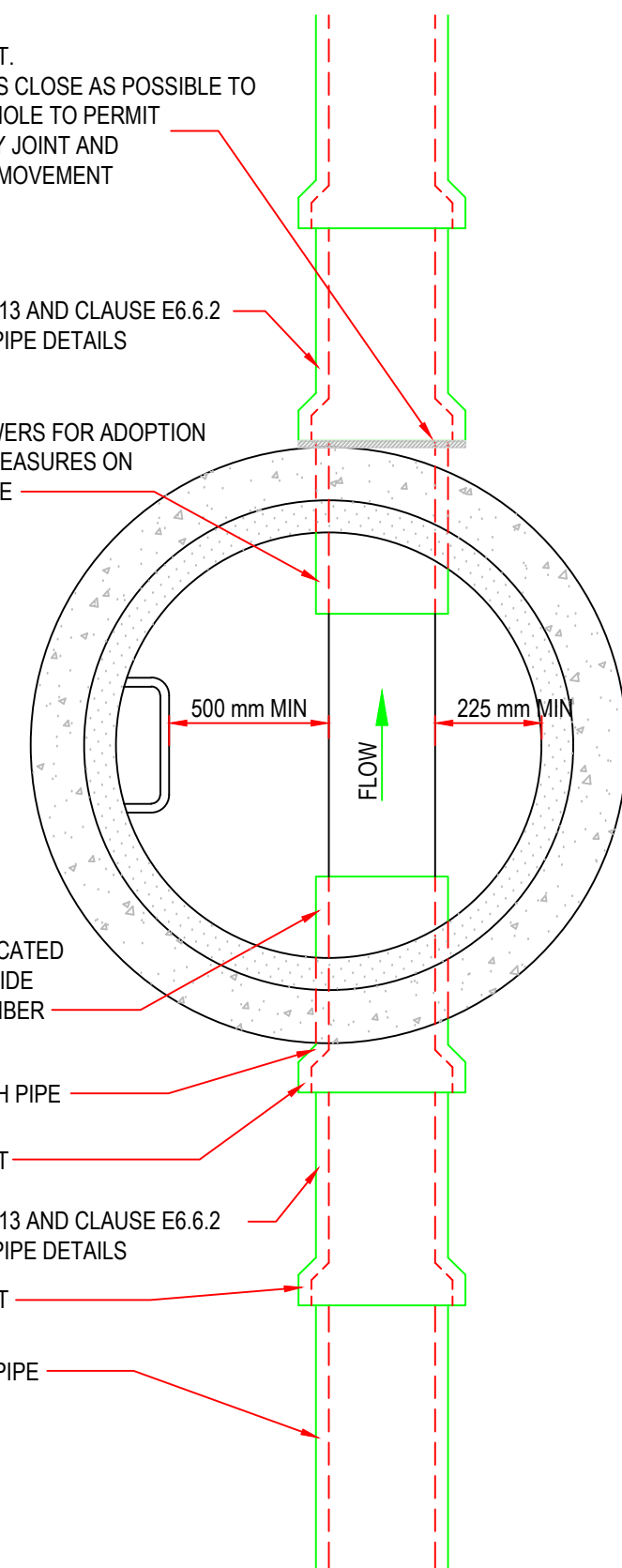
SHORT LENGTH PIPE

FLEXIBLE JOINT

SEE FIGURE B.13 AND CLAUSE E6.6.2
FOR ROCKER PIPE DETAILS

FLEXIBLE JOINT

FULL LENGTH PIPE

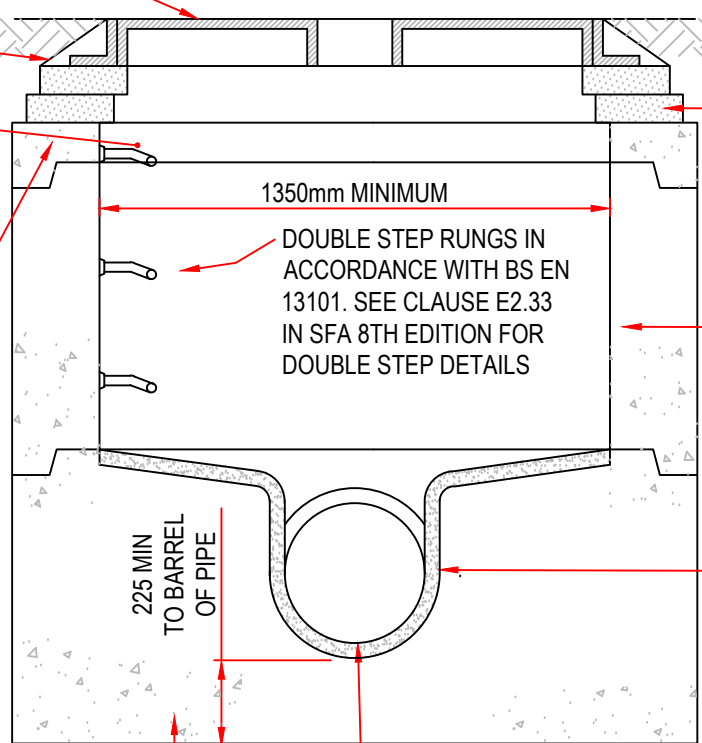


1200mm x 685mm MULTIPLE DUCTILE IRON
COVER. COVER COMPLYING WITH CLAUSE
E2.32

MORTAR BEDDING AND HANCHING TO
COVER AND FRAME TO CLAUSE E6.7 IN SFA
8TH EDITION

HEAVY DUTY P.C.C. REINFORCED COVER SLAB
WITH MINIMUM 600mm x 675mm ACCESS

MINIMUM 20mm HIGH-STRENGTH CONCRETE
TOPPING COMPLYING WITH CLAUSE E4.3 AND
E6.5 NEATLY SHAPED AND FINISHED TO ALL
BRANCH CONNECTIONS



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

BRICKWORK OR CONCRETE BLOCKS TO BE
CORBELLED (MAXIMUM 30mm PER COURSE)
TO SUIT COVER

PRECAST CONCRETE CHAMBER SECTIONS
COMPLYING WITH CLAUSE E2.29 JOINED
WITH MORTAR, ELASTOMERIC OR
PLASTOMERIC SEALS. CHAMBER WALL TO
BE MINIMUM 125mm

BENCHING SLOPE TO
BE 1:10 TO 1:30

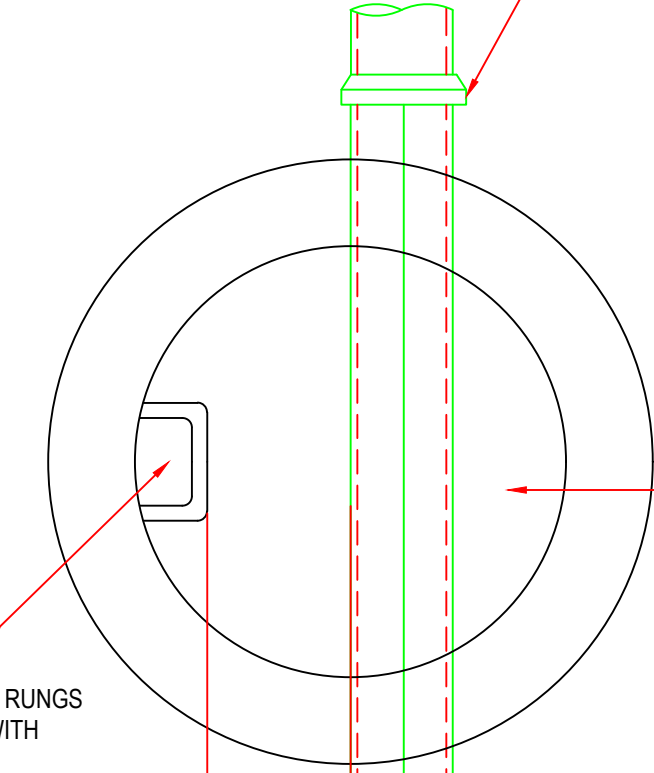
IN-SITU GEN3
CONCRETE COMPLYING
WITH E4.1 AND BRE
SPECIAL DIGEST 1

INVERTS TO BE
FORMED USING
CHANNEL PIECES

DOUBLE STEP RUNGS
COMPLYING WITH
CLAUSE E2.33

450mm MINIMUM
FROM EDGE OF
STEPPING (SEE
CLAUSE B5.2.29)

JOINT TO BE AS CLOSE AS POSSIBLE TO
FACE OF MANHOLE TO PERMIT
SATISFACTORY JOINT AND
SUBSEQUENT MOVEMENT



SHORT AND ROCKER PIPE LENGTHS	
APPLICABLE TO ALL MANHOLE TYPES	
NOMINAL SIZE (mm)	EFFECTIVE LENGTH (mm)
150 TO 600	600
601 TO 750	1000
OVER 750	1250

REFER TO FIGURE B.13 ON PAGE 32 OF SEWERS FOR
ADOPTION 8TH EDITION FOR DETAILS OF TYPICAL
ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

RIGID PIPES BUILT INTO MANHOLE SHOULD HAVE A
FLEXIBLE JOINT JOINT AS CLOSE AS IS FEASIBLE TO THE
EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF
THE NEXT ROCKER PIPE SHOULD AS PER THE TABLE ABOVE

MANHOLE SIZES	
APPLICABLE TO MANHOLE TYPES 1B AND 2	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	CHAMBER SECTION INTERNAL DIAMETER (mm)
LESS THAN 375	1200
375 TO 700	1500
750 TO 900	1800
LARGER THAN 900	SEE SCHEDULE
CHAMBER SIZES ARE MINIMUM REQUIRED. SEE LAYOUT FOR VARIATIONS, IF ANY.	

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P01	FIRST ISSUE	PC	NB	AH	02.11.23
REV	DESCRIPTION	DRN	CHK	APP	DATE

Pell Frischmann

4th FLOOR, ONE ST JAMES SQUARE, MANCHESTER, M2 6DN
Telephone +44 (0)161 826 9400
Email: pfmanchester@pellfrischmann.com
www.pellfrischmann.com

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HOUSING GROUP

Project

LONGHURST ROAD

Drawing Title

**DRAINAGE
STANDARD DETAILS
SHEET 1 OF 2**

Drawing Status

PRELIMINARY

	Name	Date	Status Code
Drawn	P. CLARK	01.11.23	S03
Designed	P. CLARK	01.11.23	Scale
Eng Chk	N. BANKS	02.11.23	Revision
Approved	A. HALL	02.11.23	P01

Drawing No.

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