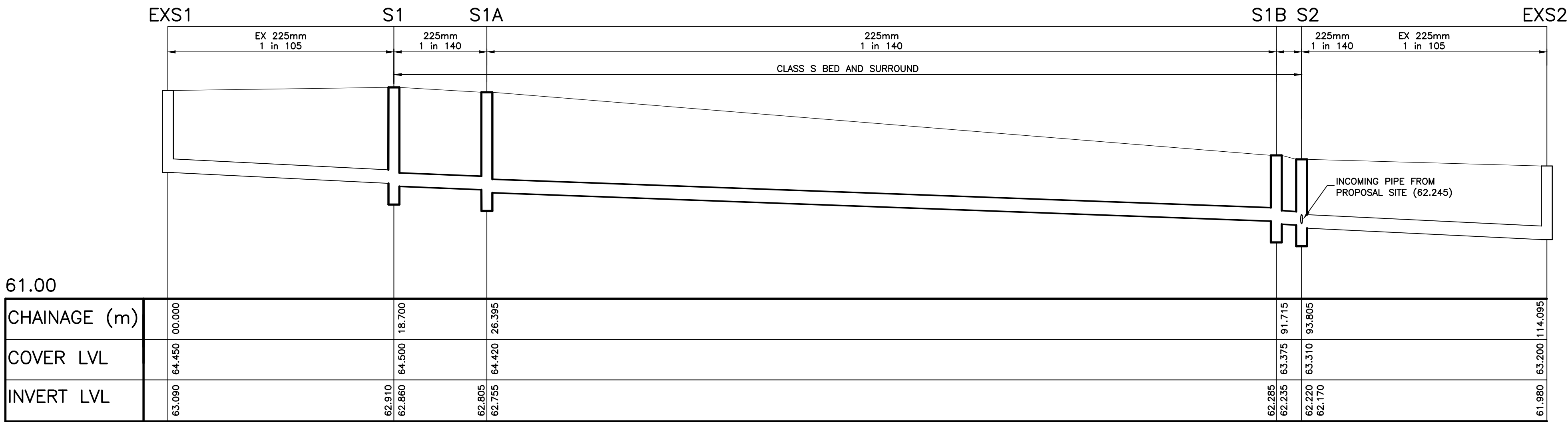
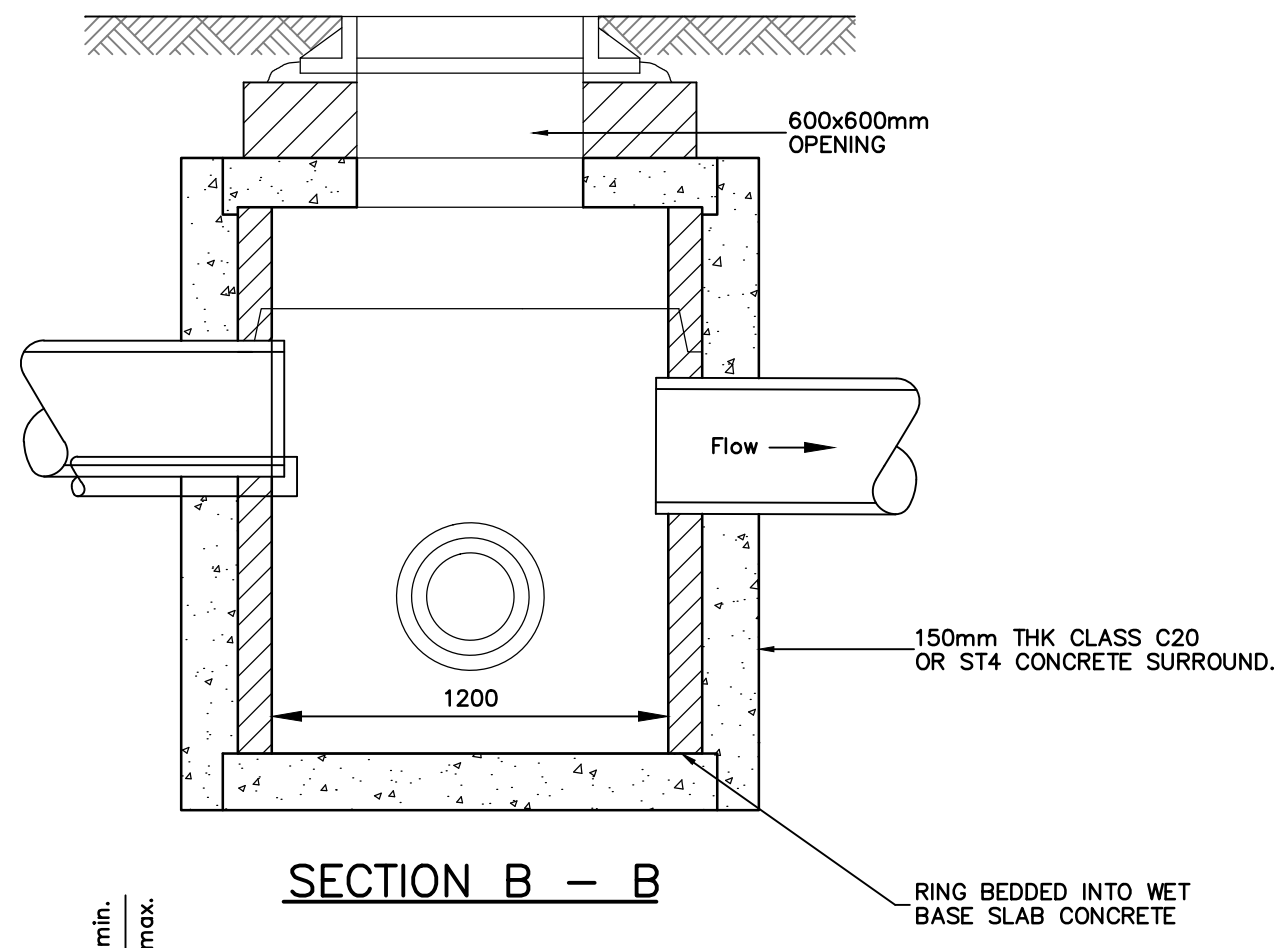




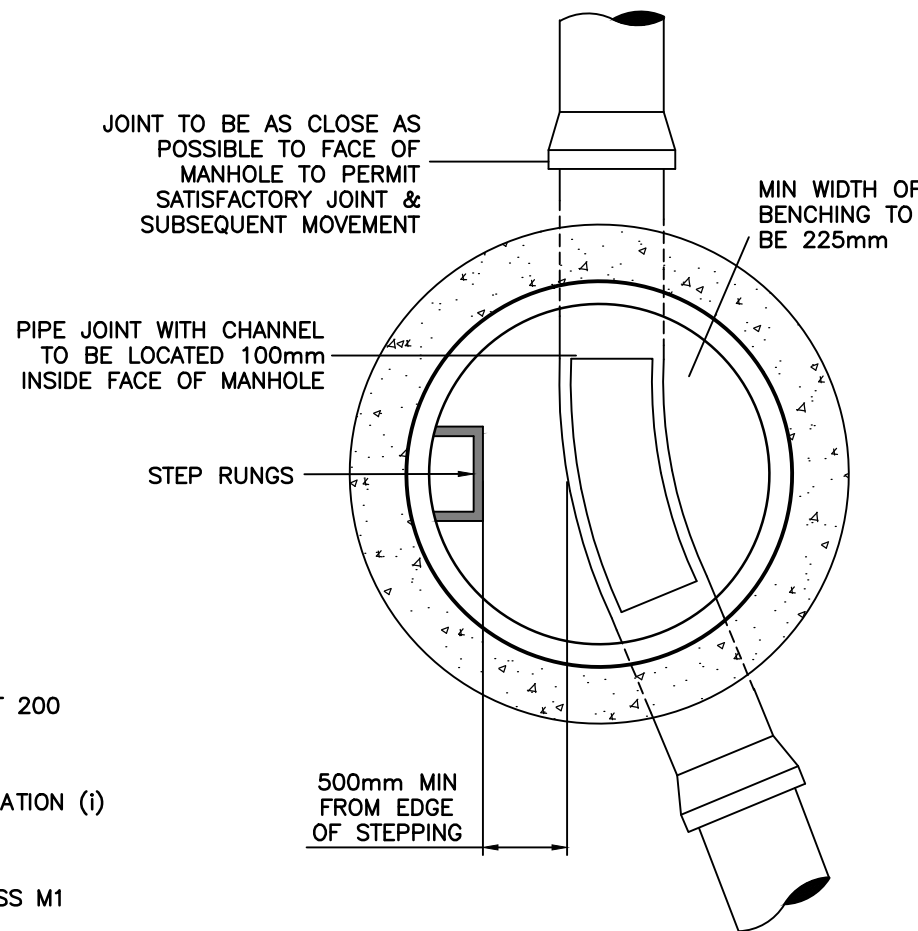
SURFACE WATER LONGSECTION
(MH EXS1-EXS2)
H - 1:250 V - 1:50



Notes.

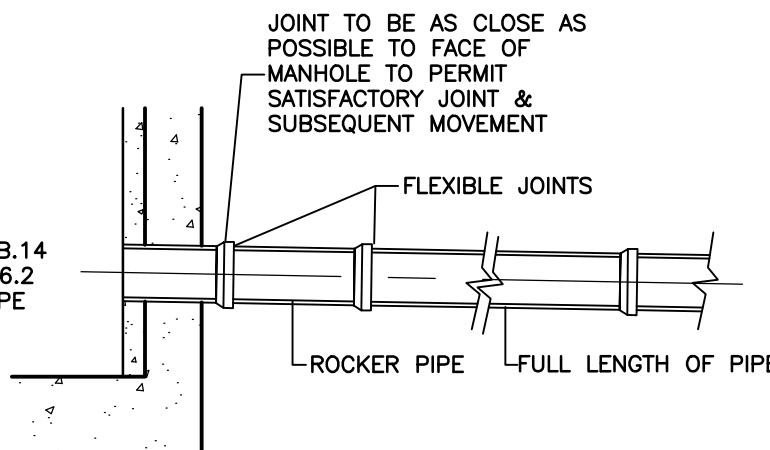
- FOR INVERT DETAILS, NUMBER OF BRANCHES AND TYPE OF GRATING COVER AND FRAME SEE THE CHAMBER SCHEDULE ON S38-1
 - PIPE TO BE BUILT INTO CATCHPIT TO DRAIN LOWER PORTION OF TRENCH. PIPE IS TO BE PLACED ABOVE ANY CONCRETE BED TO FILTER DRAIN
 - INVERT OF OUTFALL PIPE SHALL BE min. OF 50 BELOW LOWEST INCOMING PIPE
- Diagram showing the cross-section of the manhole (SECTION A - A) with dimensions and labels. The diagram includes a 65 NOMINAL BORE PIPE X 600 LONG ON UPSTREAM SIDE (SEE NOTE 2), IN-SITU MIX C20 OR ST4 CONCRETE U1 FINISH BASE SLAB 1300 DIA, and a 300 min. BELOW LOWEST PIPE INVERT.

MANHOLE DETAIL - TYPE 7C CATCHPIT
NTS



SECTIONAL PLAN

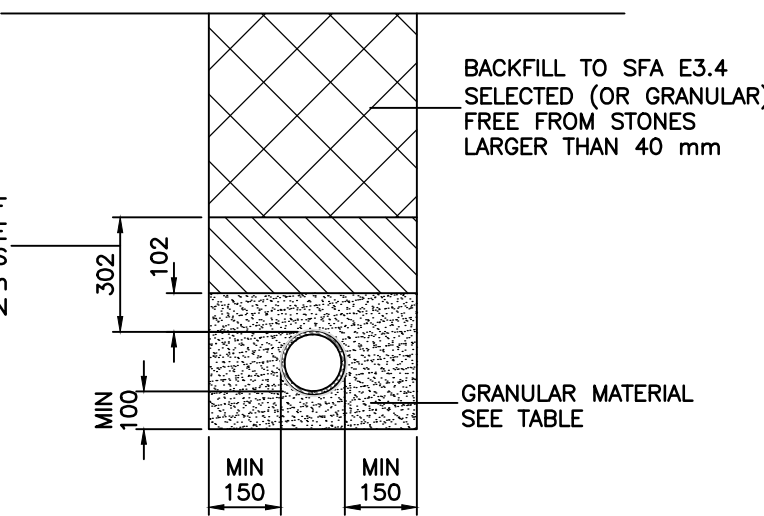
SEE SFA FIGURE B.14 AND CLAUSE E6.6.2 FOR ROCKER PIPE DETAILS



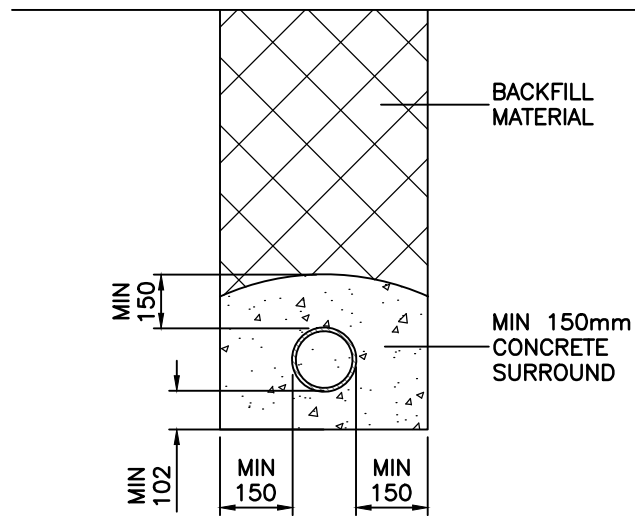
JOINTING OF PIPELINE TO
STRUCTURE/MANHOLE
1:20

PIPE NOM. SIZE (DN)	NOM. MAX STONE SIZE (mm)	SUITABLE MATERIAL
100	10	10mm NOMINAL SINGLE SIZE
150	16	10 OR 14mm NOMINAL SINGLE SIZE OR 14mm TO 5mm GRADED
300	20	10, 14 OR 20mm NOMINAL SINGLE SIZE OR 20mm TO 5mm GRADED
550	20	14 OR 20mm NOMINAL SINGLE SIZE OR 20mm TO 5mm GRADED
over 550	40	14, 20 OR 40mm NOMINAL SINGLE SIZE OR 40mm TO 5mm GRADED

CLASS Z TO BE USED WHERE MIN COVER IS NOT ACHIEVED
CONCRETE SURROUND IN ACCORDANCE WITH CLAUSE 503.3 (iii) OF THE SPECIFICATION FOR HIGHWAY WORKS (S.H.W.).
CONCRETE TO BE ST4 IN ACCORDANCE WITH CLAUSE 2602 OF THE SPECIFICATION FOR HIGHWAY WORKS (S.H.W)



CLASS S BED
& SURROUND
NTS



CLASS Z BED
& SURROUND
NTS

- CONCRETE SURROUND TO DRAIN TO BE FLEXIBLY JOINTED AT EVERY JOINT NOT WITHSTANDING THE ABOVE, MAXIMUM SPACING OF FLEXIBLE JOINT TO BE 3.0m
- TO MAINTAIN THE FLEXIBILITY OF CONCRETE SURROUNDED DRAINS THE CONCRETE SHALL BE KEPT CLEAR OF THE JOINT BY PLACING 'FLEXCELL' OR EQUIVALENT APPROVED MATERIAL.
FOR PIPES >300mm Ø PLACE 2No. LAYERS OF 18mm THICK FLEXCELL BETWEEN THE SPIGOT OF EACH IN SUCH A MANNER AS TO ALLOW THE JOINT FULL AXIAL AND ANGULAR MOVEMENT.
FOR PIPES <300mm Ø PLACE 1No. LAYER, 18mm THICK.
THE FLEXCELL SHALL BE PLACED IN A VERTICAL POSITION AND COVER THE CROSS SECTIONAL AREA OF CONCRETE BED AND SURROUND TO EACH JOINT.

JOINTS FOR CONCRETE
ENCASED PIPES
NTS

- GENERAL NOTES
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND OTHER SPECIALISTS' DRAWINGS.
 - PLEASE REFER TO DATRYS DRAWING 15064/S38-1 FOR DRAINAGE LAYOUT
 - ALL CONCRETE SHALL BE GEN3 WITH SULPHATE RESISTING IN ACCORDANCE WITH BS8500 U.N.O.
 - ALL PIPES INTO MH's TO BE SOFFIT TO SOFFIT LVL U.N.O.
 - ALL GRAVITY PVC-U PIPEWORK TO BE TO BS EN 13598-1:2010 OR BS EN 1401-1:2009 WHERE RELEVANT UNLESS NOTED OTHERWISE
- NOTES FOR PIPE BEDDING & SURROUND
- BACKFILLING TO PIPE TRENCHES BENEATH ROADS, CAR PARKING AND STRUCTURES TO BE D.O.T. TYPE 1 GRANULAR MATERIAL UP TO FORMATION LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND (WELL COMPACTED IN 150mm MAX LAYERS).
 - OPTIMUM TRENCH WIDTH = PIPE+300mm, CONTRACTOR TO ENSURE TRENCH WALLS ARE SUITABLY PROPPED
 - BACKFILL MUST NOT BE PLACED ON CONCRETE BEDDING OR SURROUND UNTIL THE CONCRETE COMPRESSIVE STRENGTH HAS REACHED 15N/mm²
 - BRICKS OR BLOCKS MUST NOT BE PLACED IN THE BEDDING MORTAR FOR SETTING THE PIPES TO LEVEL
 - ALL ROCKER PIPE LENGTHS : 600mm
 - MAX DISTANCE FROM FACE OF CONC SURROUND TO FIRST FLEXIBLE JOINT TO BE 150mm

03.07.15		CHAMBER TYPE 7C SPEC ADDED		AWC		AC		AC			
REV		DATE		DESCRIPTION		BY		CHK		APP	
REVISIONS											
CLIENT				K & C Construction Ltd.							
PROJECT											
Whitegate Road Wrexham											
TITLE											
Surface Water Longsection & Drainage Details											
 Yr Aelwyd 3-5 Church Street Cwmwllyn 01286 671027 01286 674634 info@datrys.coop www.datrys.coop Telephone Fax E-mail Internet											
DRAWN		OB		CHECKED		AC		PASSED		AC	
DATE		12.05.15		CLIENT'S REF.							
SCALE AT A1 As Shown				AUTOCAD REF. 15064/S38-3							
DRAWING No.										REVISION	
15064/S38-3										A	