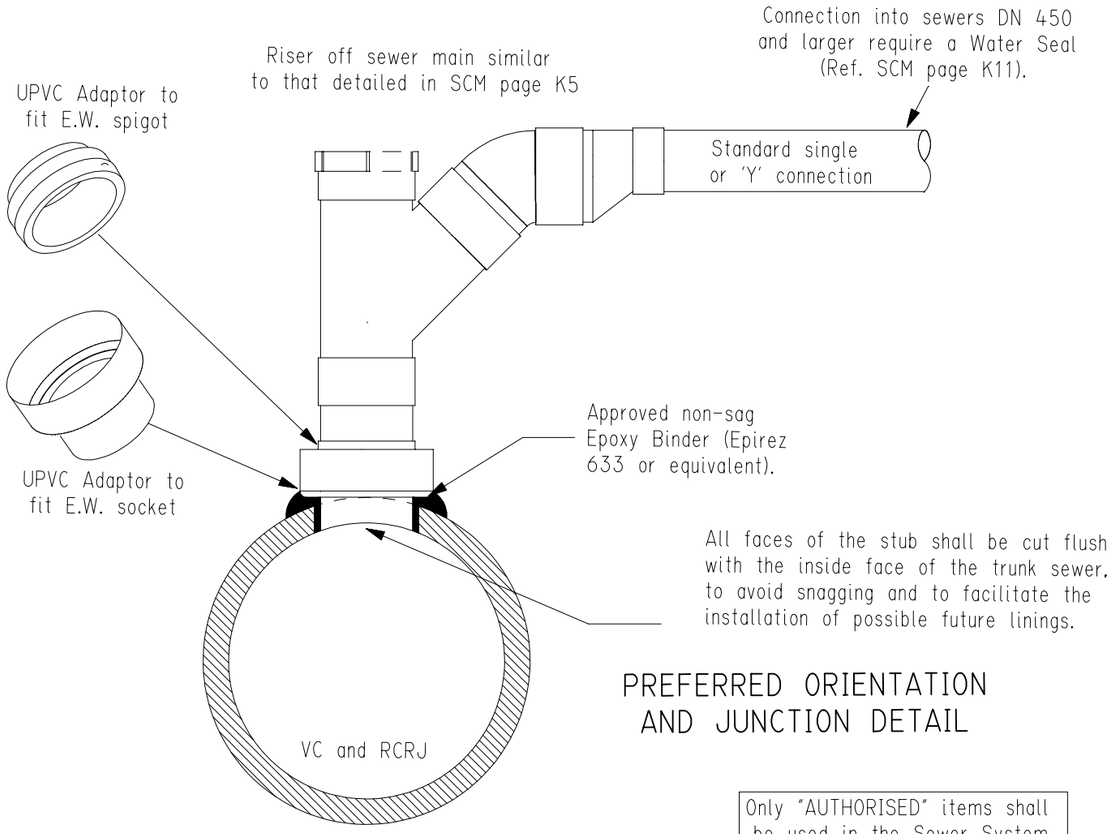
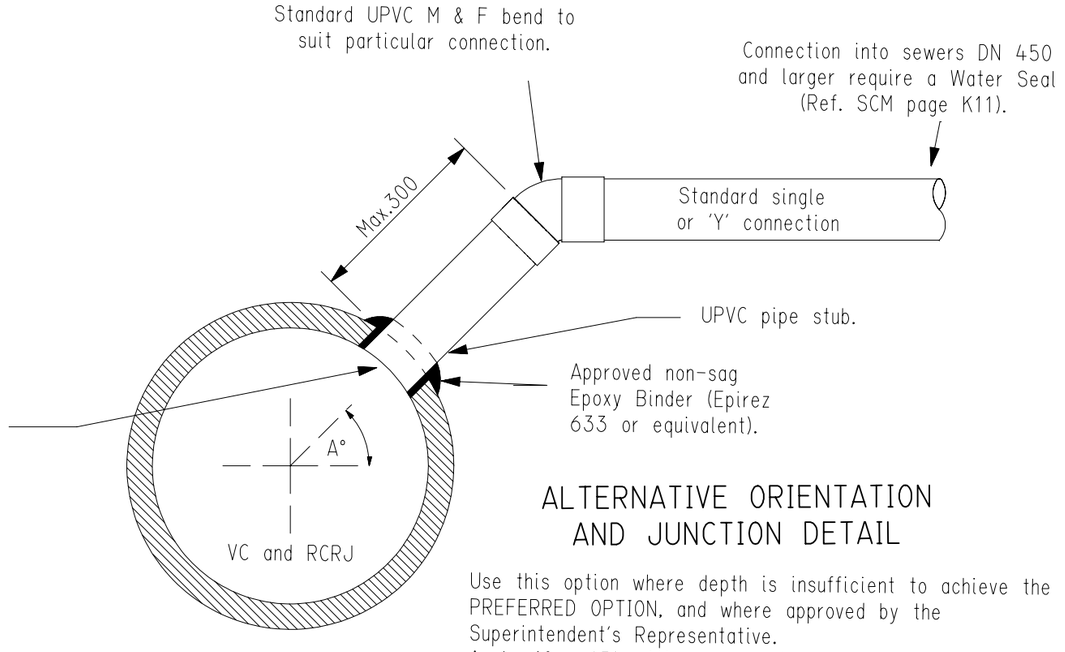


PREFERRED ORIENTATION AND JUNCTION DETAIL

Only "AUTHORISED" items shall be used in the Sewer System.



ALTERNATIVE ORIENTATION AND JUNCTION DETAIL

Use this option where depth is insufficient to achieve the PREFERRED OPTION, and where approved by the Superintendent's Representative.
Angle A° = 15° minimum, provided the connection inlet is not submerged (or partly submerged) by trunk sewer flows greater than the design maximum.

NOTES:

1. Not to be used on Plastilined Pipes.
2. Minimum connection gradient is 2.00% for DN 100 and 1.00% for DN 150.
3. Connection length not to exceed 30 metres. For connections over 20 metres, an intermediate IP shall be installed to the surface at mid length.
4. For I.P. Assembly detail Ref. SCM page K2.
5. Embedment and Trench Fill to be similar to that for a DN 150 UPVC sewer, as detailed in SCM Section G.
6. Similar details for VC and RCRJ sewers.
7. Temporary isolation of trunk sewer (or diversion of flows) may be necessary during live installations.

CORED HOLE

Hole to be cored oversize (12 min. to 15 max.) using a diamond tipped cutter.
THE DRILL CORE MUST NOT BE ALLOWED TO FALL INTO THE SEWER.
Thoroughly clean the vertical cut edges of the cored hole, including a 50 wide band around the cored hole on both the inside and outside surfaces of the trunk sewer, in readiness for the stub.

NOTE: The contractor to retain the drill core for presentation to the Inspector.

PREPARATION OF UPVC STUB

Thoroughly clean the outside face of the stub at the joint using UPVC cleaner. Paint the cleaned stub with a thin continuous layer of approved solvent cement, and sprinkle clean coarse dry sand over the freshly painted surface to provide a 'key' for the epoxy binder. Leave to dry for 15 minutes before using stub. (Ensure the 'key' extends for the full depth of the proposed joint).

INSTALLATION OF STUB

Stage 1 - Priming Operation

Apply one thick coat of the approved epoxy binder as a PRIMER coat:-
. to the outside face of the UPVC stub, over the sand 'key', for the full depth of the proposed joint.
. to the vertical cut edges of the cored hole. Finish the epoxy flush with the inside face of the trunk sewer and extend to the cleaned outside face as shown.

Stage 2 - Install Primed Stub

Install the primed stub CENTRALLY as shown while the primer coat is still 'tacky' (work time is 30 minutes at 25°C). Fill the joint to its FULL depth with more of the same epoxy binder. Finish the epoxy flush with the inside face of the trunk sewer and extend on to the cleaned outside face as shown. Trowel the finished joint.

NOTE: Coverage with the epoxy is critical to achieve a joint of adequate mechanical strength and to provide protection from corrosion where reinforcement has been exposed during coring.

Chg	C	Amendment - 14-6-96 1. Title Block amended. 2. Note 3 amended. 3. Stub details amended	Des	J.S.		AMENDMENT AUTHORISATION R.M.Jones Chief Engineer 14 / 6 / 96 ENGINEERING & PROJECTS GROUP	SOUTH AUSTRALIAN WATER CORPORATION SA WATER	SEWER CONSTRUCTION MANUAL PAGE K12 DN 100 & 150 UPVC CONNECTIONS OFF DN 375 AND LARGER VC AND RCRJ TRUNK SEWERS	Not to Scale 94-0162-01C
Drn	C.S.		Drn	C.S.					
Ckd			Exm						
Unit Ldr.			Unit Ldr.						

94-0162-01C
ISSUED 6 Jan 97
DB 94-0162 PLOT 01