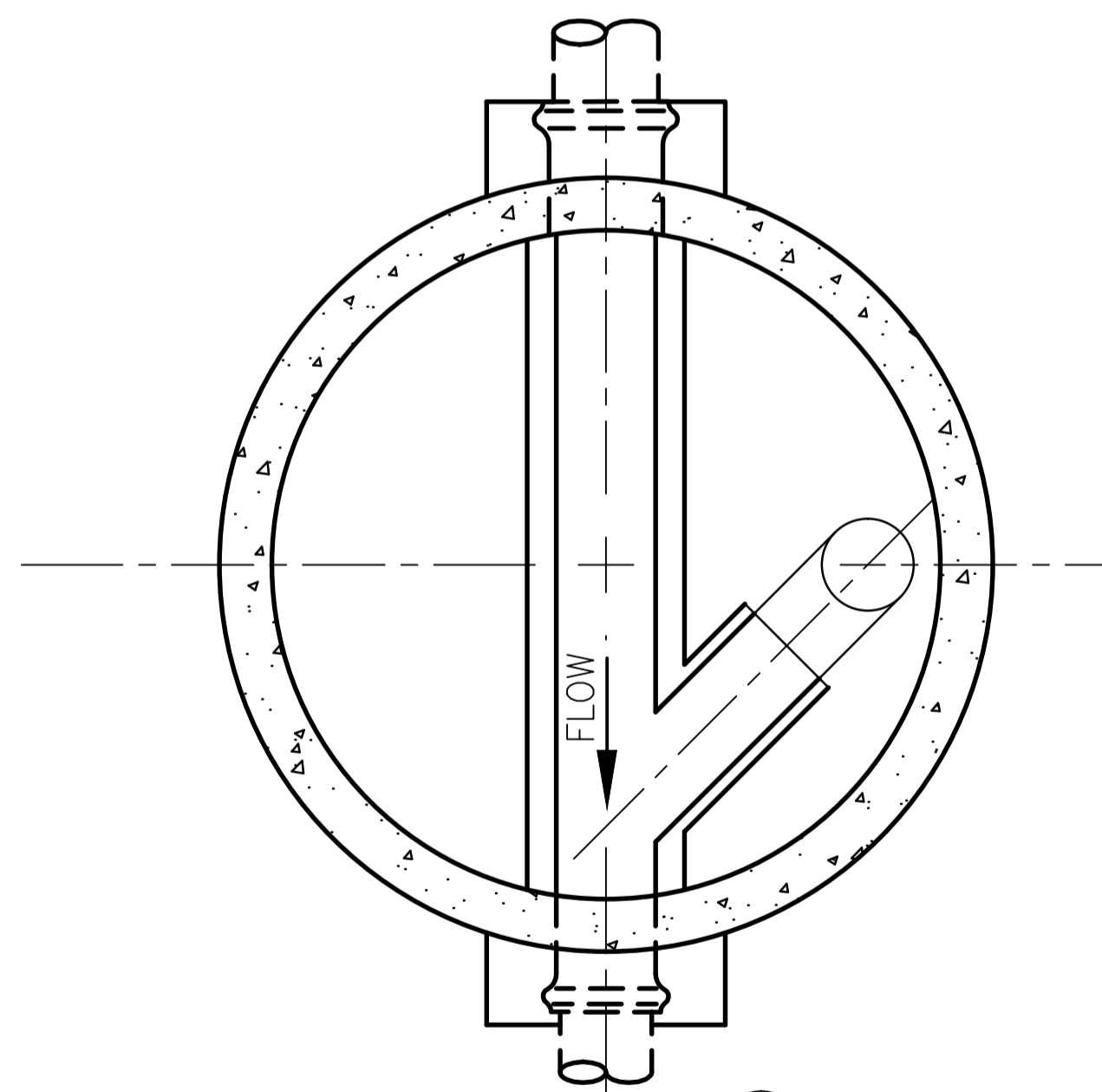


ELEVATION



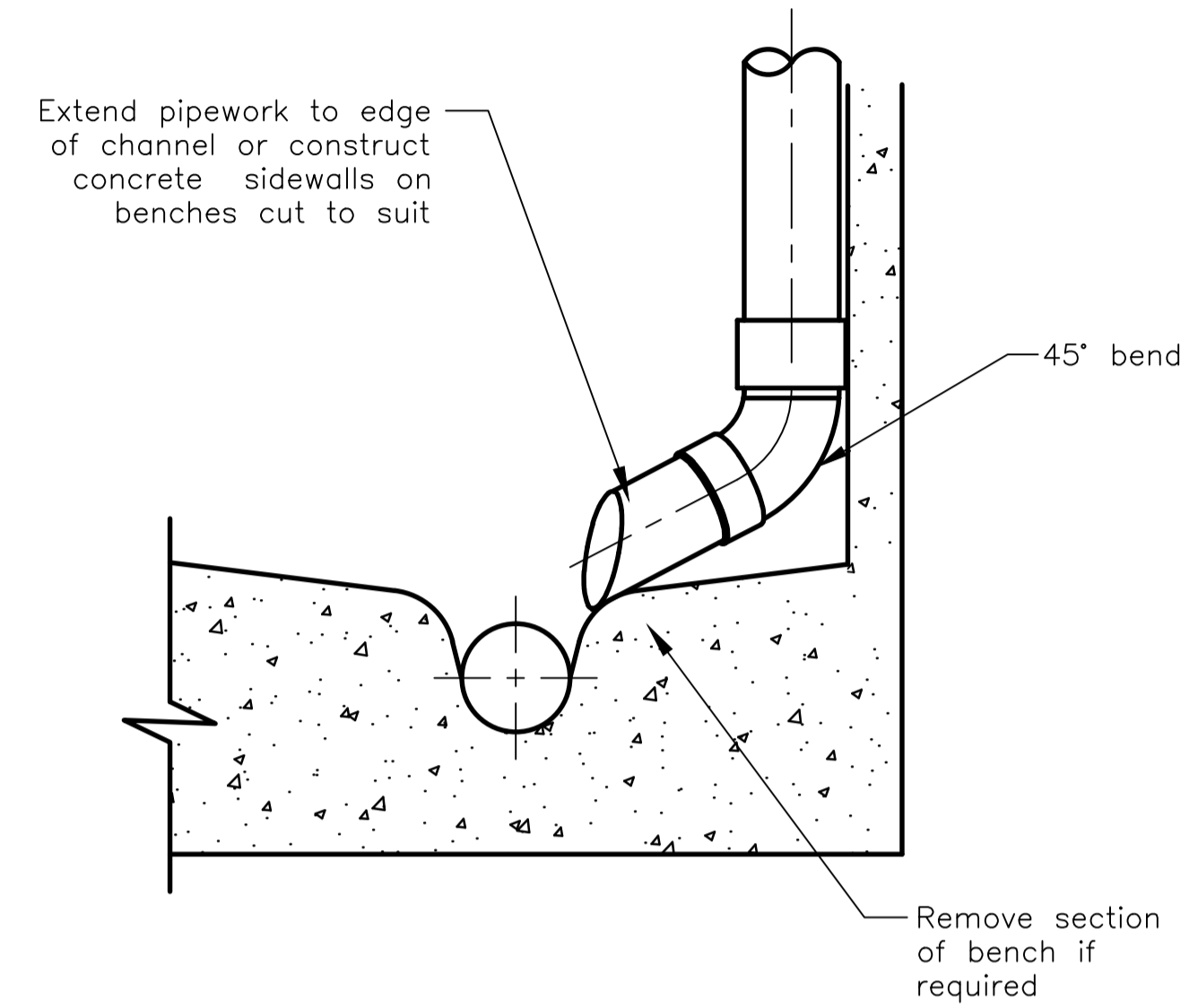
SECTION A-A

(IN-SITU MH SHOWN)

TYPICAL INTERNAL DROP
SUITABLE FOR IN-SITU AND PRECAST MH

VERTICAL DROP	
PIPE SIZE DN	MINIMUM ▲
100	460
150	460
225	710
300	880

▲ Based on current fitting availability



POST-CONSTRUCTION INSTALLATION DETAIL
(WHERE AUTHORISED BY TOWNSVILLE WATER)

NOTES

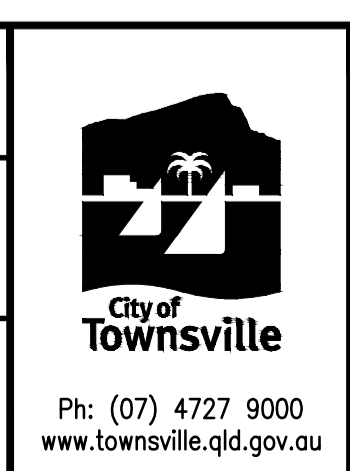
- All dimensions are in millimetres unless noted otherwise.
- This drawing to be read in conjunction with standard drawing SD-470.
- For existing MH applications cored hole to be 150 min above or below shaft section joint.
- Discharge pipe and channel placement to direct sewage in direction of main flow. See SD-472 and SD-473.
- DN 1200 MH to be used where drop pipe >DN 150 or more than two x DN 150 internal drops are used.
- Maximum of 4 drop connections to a single MH.
- Installation criteria for Hume Seal (or equivalent);
 - These couplings should only be used for backdrops in MHs, not at benching level.
 - The nuts need to be located on the inside of the MHs to enable future removal without having to dig.
 - The installation manual provided with the coupling should provide a maximum torque setting for different sizes and pipe materials to prevent deformation or destruction of the pipe.
 - Internal face of core hole to be coated with 2 pack epoxy product to cover exposed reinforcing steel prior to installation of Hume Seal.
- Maintenance hole direct house connection, min 80mm drop, max 200mm drop.
- Rocker pipe to be minimum 400mm long and maximum 600mm long

No.	DATE	DESCRIPTION	AP'D
C	08/2013	DRAWING REVIEWED	
B		NOTES AMENDED	
A		ORIGINAL ISSUE	
REVISIONS			

NOTES : BASED ON FORMER WSAW DRAWING SEW-1306

Full Size A1
Not to Scale

DRAWN: DESIGN OFFICE
CHECKED:
Design Engineer Approved: Original signed by D MOSELEY
Date: 22/8/2013
Manager Approved: Original signed by S GREY
Date: 22/8/2013



MAINTENANCE HOLES
ALTERNATIVE DROP CONNECTIONS

STANDARD DRAWING
SEWERAGE
SD-474 C