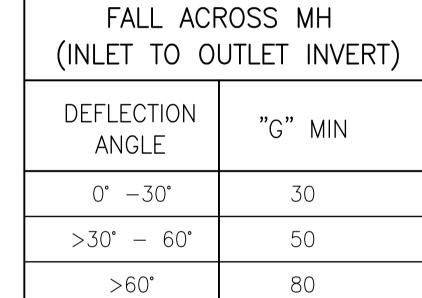
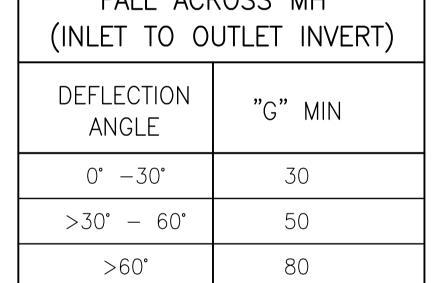


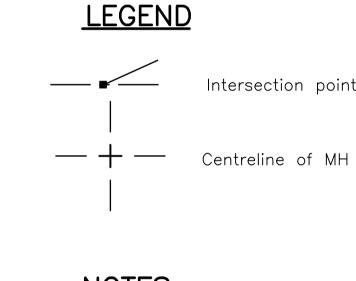
## CHANGE IN DIRECTION OF SEWER

MULTIPLE INCOMING SEWERS

## CHANGE IN DIAMETER OF SEWER

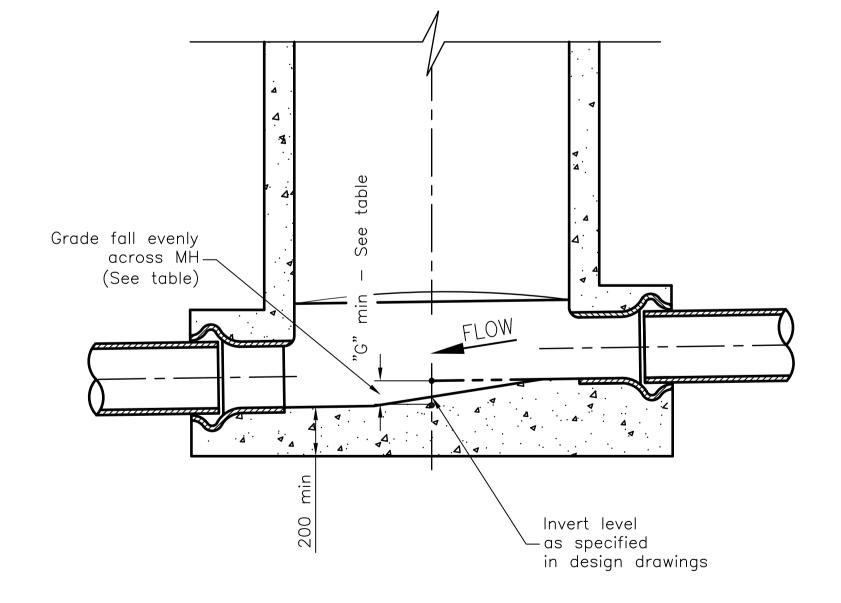






## **NOTES**

- 1. All dimensions are in millimetres unless noted otherwise.
- 2. This drawing applicable to precast and in—situ MH.
- 3. All connection types shown in this drawing are applicable to VC, PVC solvent weld (SWJ), & PVC rubber ring (RRJ) & PE pipes, unless otherwise specified.
- 4. To ensure bonding coat PVC pipes cast into MH wall and base with resin/solvent & sand or abrade for the length of wall penetration.
- 5. Fill joint around insert pipe with authorised epoxy or mastic sealing material.
- 6. For details of pipe connection to MH see SD-484.
- Rocker pipe lengths and connection systems to be as shown in SD-484.
- 8. Maximum fall across MH to be 150.
- 9. External maintenance hole drops are not permitted unless written approval is obtained from Townsville Water.
- 10. Where necessary pull MH off centreline of sewer (max 200) to improve flow and accessibility provided the following conditions are met:
  - All tangent points to be contained within MH.
  - Sufficient work area available.
  - Maintenance equipment can be used in all mains.
  - Offset as specified.
- 11. Invert levels to be as shown in design drawings.
- 12. For channel intersection and offset details see SD-473.
- 13. For sewers on steep grades or where the intersection angle is <45° use drop junction as shown on SD-474.



CHANGE IN DIRECTION THROUGH MAINTENANCE HOLE PVC (RRJ) PIPES SHOWN

STRAIGHT THROUGH SEWER

VC PIPES SHOWN

NOTES: BASED ON FORMER WSAA DRAWING Full Size A1 SEW-1303 AND SEW-1304 DRAWN: DESIGN OFFICE Design Engineer Approved: Original signed by P. TURL Not to Scale Date: 26/07/212 NOTES AMENDED ORIGINAL ISSUE Manager Approved: Original signed by P. MENDIOLEA DATE DESCRIPTION Date: 26/07/2012 **REVISIONS** 



Grade to suit

(See table)

- Invert level as

drawings.

CHECKED: D. MOSELEY

specified in design

MAINTENANCE HOLES CHANGES IN LEVEL DETAILS AND CHANNEL ARRANGEMENTS STANDARD DRAWING

SEWERAGE

SD - 471