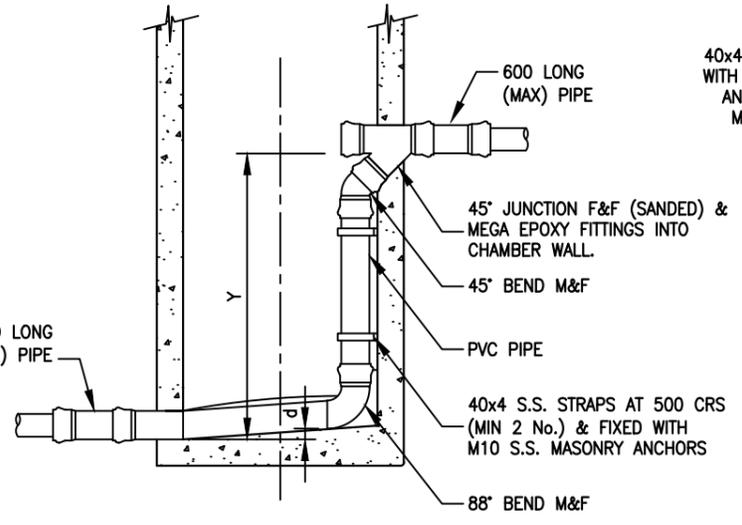
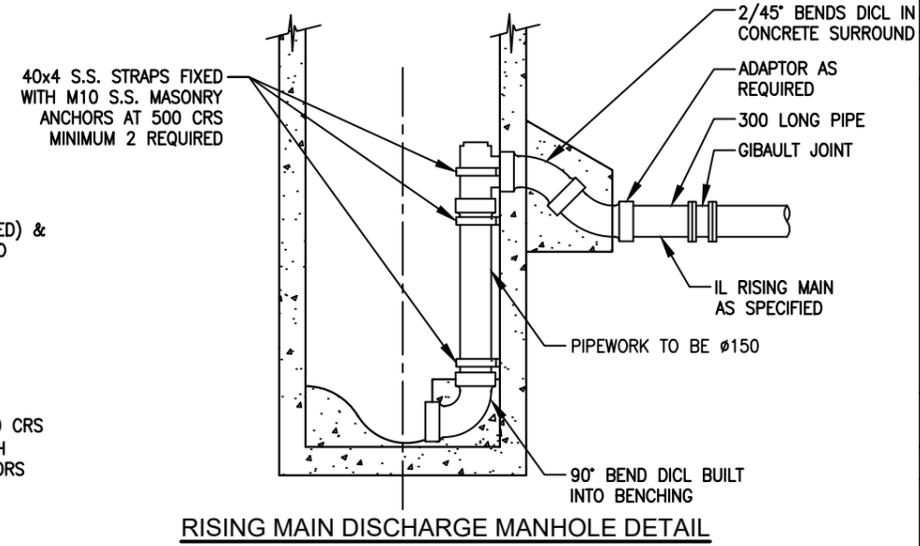


INLET TYPE A

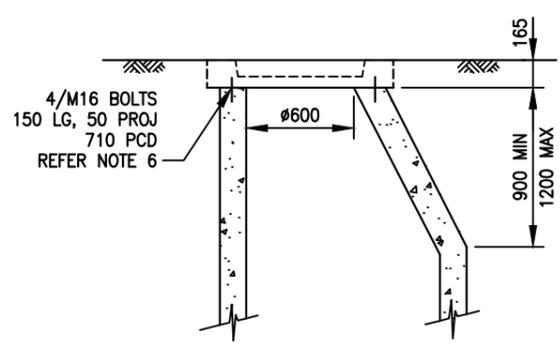


INLET TYPE C

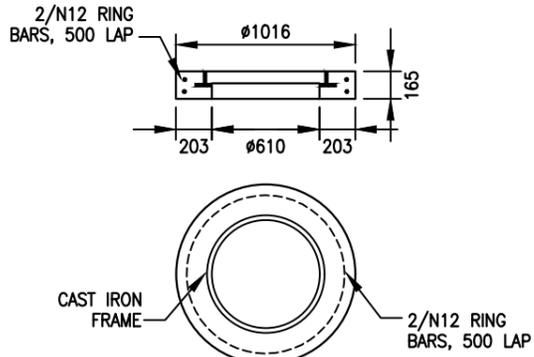


RISING MAIN DISCHARGE MANHOLE DETAIL

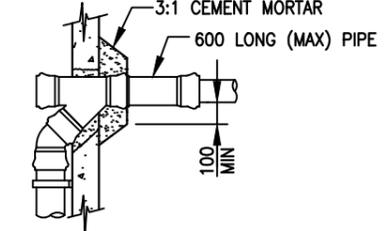
NOTE:-
 1. CONSTRUCT INTERNAL DROP & BENCHING AS NECESSARY. (REFER INLET TYPE C)
 2. DISCHARGE MANHOLE SHALL HAVE INTERNAL LINING. (REFER NOTE 14)



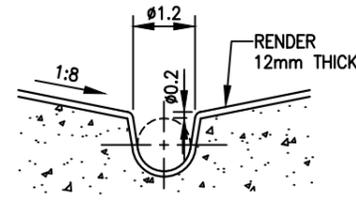
ALTERNATIVE TAPERED TOP



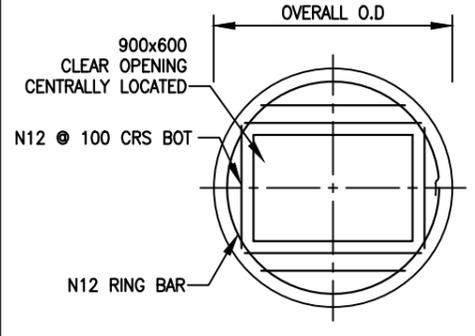
CONCRETE RING (COVER OMITTED FOR CLARITY)



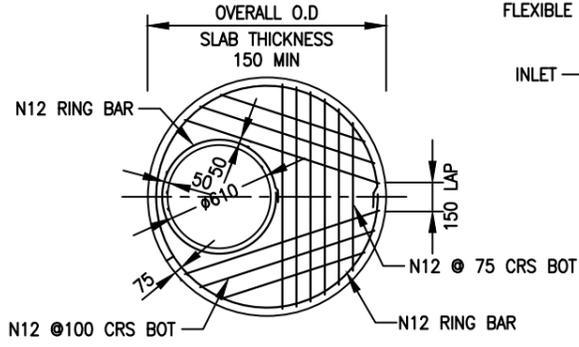
NEW PRECAST CONNECTION BREAK IN DETAIL



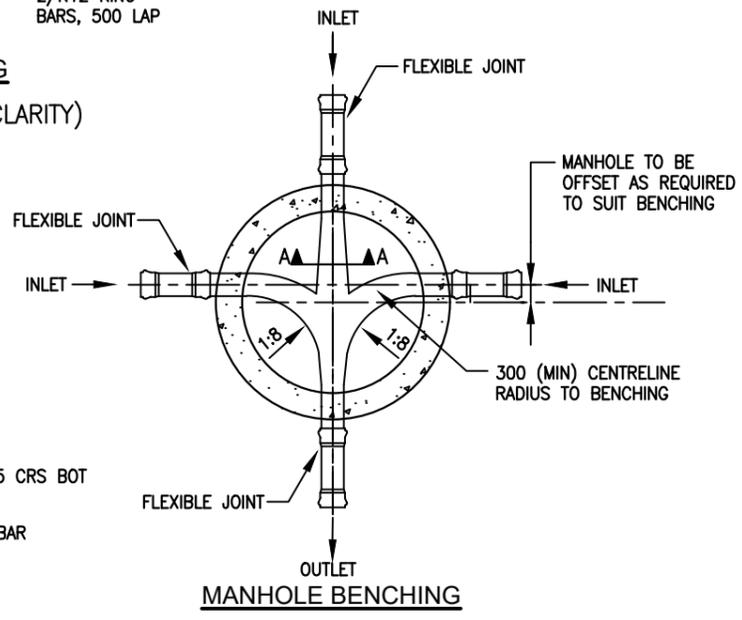
A-A SECTION



RECTANGULAR COVER



CIRCULAR COVER



MANHOLE BENCHING

| INLET TYPES A & C | | | | |
|-------------------------------------|------------------------------|-------------|---------------------------------|------|
| Manhole description | Diagram | Min. drop d | | |
| Same diameters | | | | |
| Straight through | | 40 | | |
| Angle up to 45 | | 40 | | |
| Angle from 45 - 90 | | 40 | | |
| Branch at angle less than 30 | | 40 | | |
| Branch at angle 30 - 60 | | 50 | | |
| Branch at angle 60 - 90 | | 70 | | |
| Main and branch varying diameters | | | | |
| Main Dia | Branch Dia | | | |
| 300 | 225 | 80 | | |
| 300 | 150 | 150 | | |
| 300 | 100 | 200 | | |
| 225 | 150 | 80 | | |
| 225 | 100 | 130 | | |
| 150 | 100 | 50 | | |
| House drains entering end manholes. | | | | |
| 150 House drain | | 30 | | |
| 100 House drain | | 80 | | |
| MANHOLE CHANGE IN LEVEL (Y) | | | | |
| NOM. DIA. | Type A - Fall Across Manhole | | Type C - Vertical Internal Drop | |
| | MIN. | MAX. | MIN. | MAX. |
| 150 | - | 250 | 600 | - |
| 225 | - | 280 | 700 | - |
| 300 | - | 330 | 900 | - |

NOTES

- PIPES SHOWN ARE DIAGRAMMATIC ONLY AND ARE NOT MEANT TO REPRESENT ANY PARTICULAR CLASS OR MATERIAL. PIPE MATERIAL AND CLASS ARE TO BE PROJECT SPECIFIC.
- ALL CONCRETE SHALL BE GRADE N32, IN ACCORDANCE WITH AS1379 AND AS3600. MINIMUM COVER TO REINFORCING TO BE 40mm.
- ALL COUPLINGS ENTERING CONCRETE SHALL BE FACTORY SANDED TO PROVIDE A SECURE WATERTIGHT BOND WITH CONCRETE WALL.
- MANHOLES GREATER THAN 6.0m DEEP SHALL BE ENGINEER DESIGNED AND SPECIFICALLY DETAILED.
- COVERS TO MANHOLES TO BE CAST IRON WATER TIGHT/GAS TIGHT COVERS (REFER C.R.C. SPECIFICATION) AND SHALL BE TYPE B INSIDE PROPERTIES, TYPE C ELSEWHERE.
- BOLTS TO CONCRETE RING REQUIRED ONLY WHEN BOLT DOWN COVER IS SPECIFIED, OTHERWISE SHALL BE SEATED ON A MORTAR BED.
- CONNECTIONS TO EXISTING MANHOLES SHALL BE CARRIED OUT ONLY WITH PRIOR APPROVAL OF COUNCIL.
- WHERE DEPTH OF MANHOLE FROM OBVERT OF PIPE TO TOP OF MANHOLE LID < 1400mm, A RECTANGULAR COVER SHALL BE USED, OTHERWISE ALL COVERS SHALL BE CIRCULAR.
- MANHOLE COVERS SHALL BE LOCATED DIRECTLY OVER OUTLET PIPE.
- MAXIMUM CHANGE OF ANGLE THROUGH MANHOLE SHALL BE 90°.
- COVERS SHALL BE FITTED WITH A THICK COATING OF HEAVY GREASE TO THE SEATING RING TO PREVENT SEIZING.
- CONSTRUCTION JOINTS SHALL BE SCABBLED AND DOWELED WITH 4/N16 GALVANIZED COGGED DOWELS.
- MANHOLE TOP TO BE SEATED ON WATERPROOF BITUMEN MASTIC.
- INTERNAL LINING TO DISCHARGE MANHOLE TO BE A PRODUCT APPROVED BY COUNCIL.
- MAXIMUM No INLET PIPES CONNECTED TO MANHOLE = 3
- MAXIMUM INTERNAL DROPS IN A MANHOLE:-
 FOR 1050, ONE INTERNAL DROP WITH 150 IN SIZE.
 FOR 1200, TWO VERTICAL/INTERNAL DROPS WITH 150 OR GREATER IN SIZE.
- WALL AND BASE THICKNESS TO BE 225mm (MIN) FOR AGGRESSIVE SOIL.
- PRECAST UNITS MUST COMPLY WITH S6.21 AND AS4198.

| REVISIONS | DATE |
|----------------------------------|----------|
| D NOTE 14 REVISED, NOTE 18 ADDED | 27/08/20 |
| C CRC DRAWING ADOPTED | 28/11/12 |
| B INLET TYPE B REMOVED | 18/01/05 |
| A ORIGINAL ISSUE | 13/03/04 |

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SEWERAGE MANHOLES

Standard Drawing
S3000

| | | | |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|