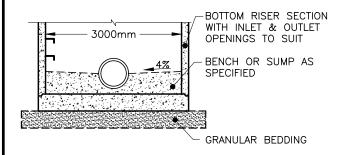
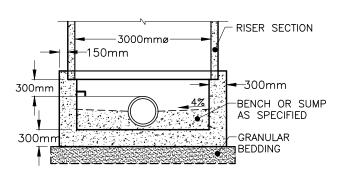
## **ALTERNATIVES**



## A. PRECAST SLAB BASE



\*MEASURED TO BENCHING OR SUMP, WHICHEVER IS APPLICABLE

300mm MAX.

1200

300mm MAX.\*

3000mm

300mm

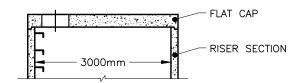
DEPTH\*

HOLE

₹1800mm

MIN.

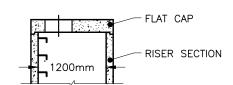
## B. CAST-IN-PLACE BASE



## C. 3000mm PRECAST FLAT CAP

#### NOTES:

- THE SUMP IS MEASURED FROM THE LOWEST INVERT, FOR SUMP DETAIL SFF AS -314A
- GRANULAR 'A' BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 300mm TO A MINIMUM WIDTH OF 300mm AROUND THE ENTIRE PERIMETER OF THE MAINTENANCE HOLE.
- PRECAST CONCRETE COMPONENTS SHALL BE ACCORDING TO OPSD 701 & 703 SERIES.
- 4. a) SANITARY MAINTENANCE HOLES SHALL HAVE GASKETED FLEXIBLE WATERTIGHT CONNECTIONS FOR ALL INLET AND OUTLET PIPES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
  - b) STORM INLET AND OUTLET SUPPORT SHALL BE CLASS 'A' BEDDING TO FIRST PIPE JOINT BEYOND MANHOLE (RIGID PIPE) OR HAVE A FLEXIBLE JOINT WITHIN 900mm OF MAINTENANCE HOLE WALL (RIGID OR FLEXIBLE PIPE) WITH CLEAR STONE BEDDING.
- 5. MAINTENANCE HOLE STEPS IN ACCORDANCE WITH AS -305.
- 6. FROST STRAPPING FOR SANITARY MAINTENANCE HOLES AS PER AS-314 TO EXTEND 2.0m BELOW FINISHED GRADE (1.0m BELOW FROST DEPTH).
- CAST—IN—PLACE BASES TO BE TO THE SATISFACTION OF THE CITY ENGINEER.



FRAME AND COVER AS PER AS-304
TO BE SET IN FULL MORTAR BED TO

PROPER GRADE & WITH APPROVED

TAPERED TOP

SEE ALTERNATIVE 'C' & 'D'

SEWER WHEREVER PRACTICAL

RISER SECTIONS AS REQUIRED

ADJUSTMENT UNITS AS PER AS-213

CHIMNEY TO BE ALIGNED WITH OUTLET

BENCHING REQUIRED FOR

SEE ALTERNATIVES A & B

APPROVED BASE

SANITARY MAINTENANCE HOLES

MONOLITHIC BASE WITH INLET

& OUTLET OPENINGS TO SUIT;

## D. 1200mm PRECAST FLAT CAP

- 8. WATERPROOFING MEMBRANE FOR SANITARY MAINTENANCE HOLES AS PER AS—314, SHALL BE INSTALLED PRIOR TO INSTALLATION OF FROST STRAPPING.
- 9. STRUCTURES EXCEEDING 5.0m IN DEPTH SHALL INCLUDE SAFETY PLATFORM ACCORDING TO APPLICABLE OPSD, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

NOT TO SCALE



### CITY OF WINDSOR

ENGINEERING DEPARTMENT

# PRECAST MAINTENANCE HOLE 3000mm DIAMETER

DR'N BY: SS, NB, AZ

DATE: JUN, 2017

REV. DATE: MAR, 2025

CH'KD BY (GEO OPS): PJU, AL

PASSED BY: FM

CITY ENSINEER AS-314E