

INFRA-RISER ADJUSTING RINGS AS MANUFACTURED BY GNR TECHNOLOGIES, INC. 4" MAXIMUM. MINIMUM AMOUNT OF RINGS TO EQUAL 8".

MH FRAME & COVER SHALL BE CAST IRON E.J.I.W. NO. 1590 OR EQUAL. BEARING SURFACES OF LIDS SHALL BE MACHINED. SANITARY MANHOLES SHALL HAVE SOLID LIDS AND BE LABELED "SANITARY SEWER" STORM LIDS SHALL BE STAMPED "DUMP NO WASTE" AND "DRAINS TO WATERWAYS" STORM LIDS SHALL BE VENTED.

MANHOLE STEPS @ 16" C/C MANHOLE STEPS SHALL BE M.A. INDUSTRIES PSI-PF MANHOLE STEPS OR EQUAL

REINF. CONCRETE ECCENTRIC CONE TOP ASTM C478

RUBBER GASKET JOINTS ASTM C443

WRAPID SEAL

TYPE I- 4'-0" DIA. FOR SEWERS 18" & SMALLER

TYPE II- 5'-0" DIA. FOR SEWER 21" & 30"
TYPE III-6'-0" DIA. WHERE REQUIRED OR SPECIFIED

CLASS QC-MISC. CONC. FILL

ASTM C478 REINF. CONC. MANHOLE SECTIONS

PRECAST BASE - SECTION ASTM C478

BENCH SHALL BE FULL HEIGHT OF CROWN OF OUTLET SEWER AND SLOPED AT 4% MIN.

WATERTIGHT FLEXIBLE JOINTS SHALL BE KOR-N-SEAL (U.S. CONC. PIPE), OR APPROVED EQUAL.

BED BASE SECTION IN 4" (MIN.) CLASS "C" CONC. OR COMPACTED GRANULAR BEDDING MATERIAL

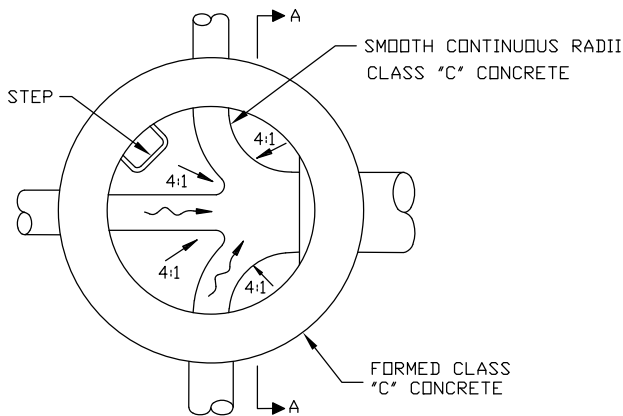
FOR PRECAST INVERTS PROVIDE 1" APPROX. OPENING BETWEEN PIPE AND CHANNEL CONCRETE AT PENETRATION

NOTE:
5'-0" DIA. AND 6'-0" DIA. MH'S REQUIRE TRANSITION SECTIONS.

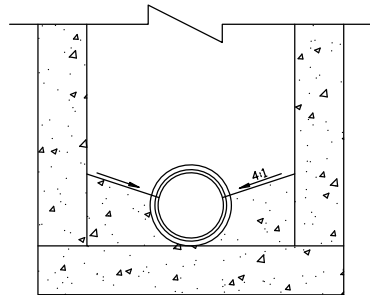
NOTE:
LIFT HOLES SHALL BE FILLED IN WITH NON-SHRINK MORTAR.

PRECAST MANHOLES

NOTE:
STREAMLINE ALL CHANNELS USING CLASS QC-MISC. CONC.



NOTE:
0.1' OF FALL REQUIRED ACROSS ALL MANHOLES.



ORIENT MH SECTIONS TO PLACE STEPS ABOVE CHANNEL SHELF UNLESS OTHERWISE DIRECTED

SECTIONAL PLAN

- NOTE:
1. PREFORMED BITUMEN SEALS, KENT SEAL OR EQUAL, SHALL BE USED BETWEEN ADJUSTING RINGS IN LIEU OF MORTAR. NO MORTAR BETWEEN ADJUSTING RINGS.
 2. STORM MANHOLES SHALL CONFORM TO THIS DETAIL INCLUDING JOINT INFORMATION.
 3. CONCRETE COLLAR SHALL BE USED FOR ALL NEW MANHOLES IN HARD SURFACES AND WHERE SPECIFIED BY THE CITY.
 4. CUT PIPE SHALL NOT EXCEED BEYOND THE INSIDE FACE OF THE MANHOLE WALL.
 5. CONCRETE PLACED INSIDE THE MANHOLE SHALL NOT BE PLACED BETWEEN THE PIPE AND THE OPENING SO AS TO INTERFERE IN ANY WAY WITH THE FLEXIBILITY OF THE JOINT.

TYPICAL MANHOLE DETAIL
STANDARD DRAWING
SCALE: NTS
SS 5.0

APPROVED BY: J. BISCHOFF

APPROVED DATE: 3/5/24

REVISIONS: 0.0

