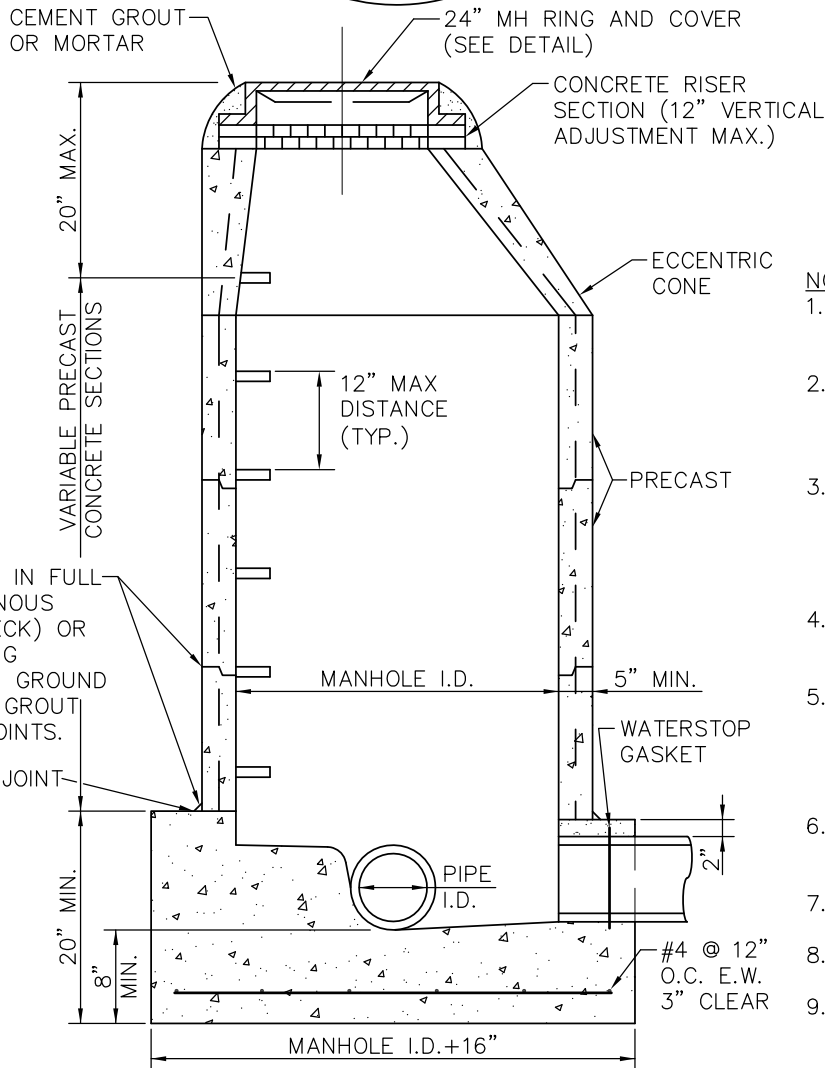


RING AND COVER ELEVATION SHALL BE IN ACCORDANCE WITH THE CITY/ COUNTY REQUIREMENTS.



SET EACH RING IN FULL BED OF BITUMINOUS MASTIC (RAMNECK) OR PLASTIC SEALING COMPOUND. IN GROUND WATER AREAS, GROUT ALL OUTSIDE JOINTS.

SEAL OUTSIDE JOINT WITH MORTAR

**NOTES:**

1. MANHOLE BARREL MIN. DIA. SHALL CONFORM TO TABLE BELOW.
2. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING BASE CONCRETE.
3. MANHOLE STEPS SHALL ONLY BE INSTALLED IF DIRECTED BY DISTRICT ENGINEER. (SEE PLASTIC STEP DETAIL FOR FURTHER INFORMATION)
4. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478.
5. BLOCK-OUTS WHEN APPROVED SHALL EXTEND A MAX OF 6" PAST MANHOLE O.D. AND BE SATISFACTORILY PLUGGED AND SEALED.
6. CONCRETE MANHOLES MAY BE Poured IN PLACE ONLY WITH PRIOR APPROVAL.
7. ALL MORTAR GROUT SHALL BE MIXED WITH TYPE II CEMENT.
8. BENCH MUST HAVE A BRUSHED, NON-SKID SURFACE.
9. OUTFALL OR DROP MANHOLES SHALL BE LINED WITH STRONG SEAL OR APPROVED EQUAL, PER MANUFACTURER'S SPECIFICATIONS.
10. SEAL ALL EXTERIOR JOINTS WITH A WATERPROOF BITUMINOUS MEMBRANE.

PIPE I.D.	MANHOLE I.D.	RING & COVER
18" & SMALLER	4'-0" ▲	24"
21" TO 48"	5'-0"	30"
54"	6'-0"	30", 36" W/ 24"
60" & LARGER	SPECIAL DESIGN	INNER COVER

▲ WHENEVER MORE THAN A TWO WAY MANHOLE OF MAX. PIPE I.D. IS REQUIRED, THE MANHOLE SHOULD BE INCREASED TO LARGER DIA., EG. 18"x18"x18", REQUIRES 5'-0" I.D.

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**SOUTH ARAPAHOE**  
SANITATION DISTRICT

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**STANDARD MANHOLE  
DETAIL**